PLANET
Networking & Communication

2019 PRODUCT GUIDE
Intelligent IP Networking Solutions

CONTENTS

Overview

PLANET @ A Glance

With a strong mission to be a "Pioneer of IP Innovation" in the global market, PLANET designs and manufactures Internet Protocol-based (IP-based) networking products and solutions to achieve the goal of continual innovations. It is delivering its promises to be a worldwide IP-based technology leader today and tomorrow, demonstrating its continued commitment to innovation, quality, reliability, and efficiency, as well as realizing the Corporate Social Responsibility. PLANET was officially listed on Taipei Exchange (TPEx) in Taiwan with trade code 6263 in September 2003.

Tradition of Innovations

Since its founding in 1993, PLANET has been dedicated to provide innovative IP-based networking solutions with the most complete range of product offerings to satisfy the growing demands of various entities from Businesses, Education, Finance, Healthcare, Industry, Government, etc. All our technologies and product mix are driven and delivered based on the concept of Activating IP Power to bring our customers the benefits characterized as energy-saving, ease-to-install, and cost effective. Our history of technology innovations forms a strong foundation for breakthroughs in high-performance, and next-generation networks.

Global Branding

For catering to the rapid change of network requirements from all types of businesses and organizations, PLANET has built the most professional and solid distributor channels in more than 140 countries across 5 continents. To provide market-oriented assistance directly to our partners and distributors worldwide, we offer the most in-depth products and marketing resources. Our business partners and customers can easily access sales and marketing tools via Internet at their convenience and requirements. Our distributors therefore can provide professional and localized solutions to local customers. These overseas partners and distributors have placed PLANET culturally and physically closer to customers, ensuring the enhancement of global branding and local presence, thus creating the mutual business opportunities and profits growing benefits.

Corporate Citizenship

PLANET has always been devoted to business growth by product innovation and global branding as well as continued its effort in Corporate Social Responsibility (CSR). CSR is integrated as part of the core business strategy of PLANET. On a strategic, long-term approach to implement CSR incorporating economic responsibility, environmental responsibility and social responsibility, PLANET strives to achieve sustainable development and keeps aligning their values and behavior with the expectations and needs of employees, shareholders, customers, suppliers, communities, regulators, special interest groups and society as a whole.

PLANET Universal Network Management System
UNI-NMS

1 **Nodes Discovery**

2 **Site Management**

3 **Topology View**

4 **Event Report**

5 **Smart AP Control**
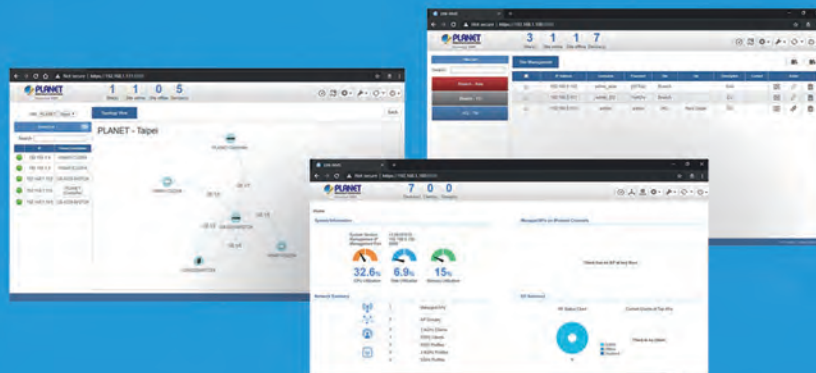
Centrally Manage All Network Devices via One Platform
VoIP / IP Camera / Switch / Industrial Switch

Universal Network Management System Software
(UNI-NMS)
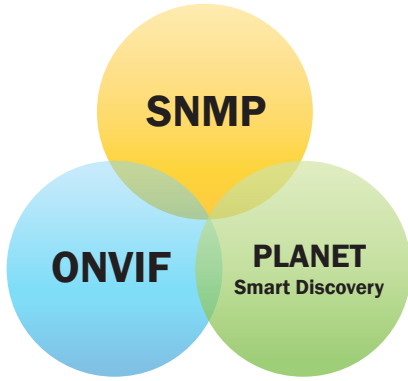
Universal Network Management System for Central Management

PLANET's Universal Network Management System (UNI-NMS) incorporated in a workstation or PC can monitor all the deployed wired or wireless industrial–grade network devices, such as managed switches, media converters, routers, smart APs, VoIP phones, IP cameras, etc. compliant with the SNMP Protocol, ONVIF Protocol and PLANET Smart Discovery utility. It thus enables the administrator to centrally manage the network from a central office, greatly boosting network and power management efficiency. With its user authentication management, UNI-NMS enhances data transmission security in the modern factory automation systems.

SNMP

ONVIF

PLANET Smart Discovery

Economical Central Network Management Solution for SMBs

PLANET UNI-NMS helps service providers and IT managers control all PLANET network devices at the same time and enables administrators to effectively manage up to 100,000 managed nodes and 200 managed sites simultaneously without purchasing any license, hardware controller and expensive annual subscription fee.

The administrator can automatically discover and configure device profiles, batch provisioning/firmware upgrade, and built-in SAPC (Smart AP Control) that customize Wi-Fi planning against floor maps, and monitor all managed APs through single web-based interface. It allows operating across different platforms through virtualization software. Such design avoids the need to configure the wireless APs one by one and provides more profit to SMB users.
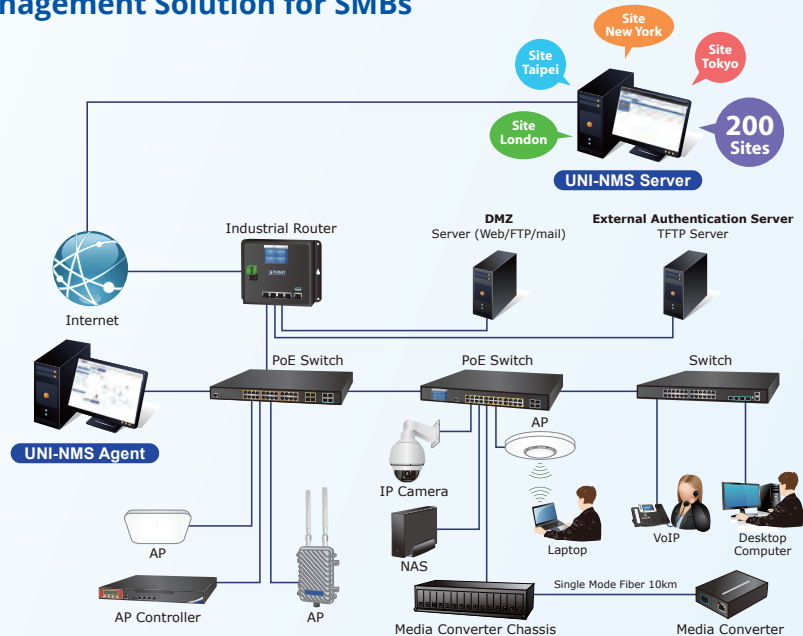
Software AP Controller

Smart AP Control (SAPC)

- AP auto-discovery
- Controls up to 256 APs
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Profile creation and maintenance
- VM-based control, cross platforms
- Free license fee

256 APs

VM

AP Control

Floor Map

IP Stacking
Up to 24 Units

✅ OSPF
✅ RIP
✅ Static Routing

10G
Fiber
PoE+
100G

Layer 3 Enterprise Stackable Switches

► XGS-6350 / SGS-6341 Series

24-Port 10G + 4-Port 100G
XGS-6350-24X4C

24-Port Long Distance Fiber
+ 4-Port 10G
SGS-6341-16S8C4XR

52-Port High Density
SGS-6341-48T4X

24-Port Long Distance
Fiber + 4-Port 10G
XGS-6350-12X8TR

24-Port Gigabit + 4-Port 10G
SGS-6341-24T4X

24-Port High Power PoE+
plus 4-Port 10G
SGS-6341-24P4X

LAN Switches

IPv4 and IPv6 Hardware Layer 3 Routing

Designed for system integrators and SMEs, the Layer 3 series provides not only ultra high transmission performance and excellent Layer 3 technologies, but also IPv4 and IPv6 VLAN routing feature, which allows to get across different VLANs and different IP addresses for the purpose of having a highly-secure, flexible management and simpler networking application.

Powerful 10Gbps~100Gbps Ultra-high-bandwidth Solution for Big Data System

PLANET's 10Gbps~100Gbps managed switches boast a high-performance switch architecture that is capable of providing non-blocking switch capacity and wire-speed throughput as high as 128Gbps~1.28Tbps. They can handle extremely large amounts of data in a secure topology linking to backbone or high capacity servers where audio, video streaming and multicast applications are utilized, perfectly suitable for data centers, service providers and telecoms to establish high bandwidth for Big Data server farm.

User-friendly Management with Unique LCD Touch Screen

Aiming to promote the management efficiency in large-scale networks, PLANET provides world's first Color Touch LCD Ethernet Switch that offers quick installation, real-time monitoring of data transmission and PoE work status, and immediate troubleshooting through its unique LCD display found on the front panel. This cutting-edge Plug and Watch Ethernet solution makes the operation of the LCD Ethernet Switch simple for SMBs, enterprises, warehouses, factories, hotels, government buildings, and other public areas to manage their networks.

Efficient Single IP Management

PLANET stackable switch series applies the advantage of the stacking technology to managing the stack group with one single IP address, which helps network managers to easily manage a stack of switches instead of connecting and setting each unit one by one. It provides IP Stacking function to configure up to a total of 24 switches with up to 16 switches stacked up.

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Layer 3 Managed Chassis Switches

XGS3 Chassis

IPv6/IPv4 Routing

Stackable

PLANET XGS3-42000R Core-Layer Routing Switch is specially designed for large network applications such as enterprises, campuses, communities, ISPs and data center networks where flexible configuration, large capacity, high density, high reliability and advanced traffic management are required.

The XGS3-42000R is a high-density chassis-based routing switch built with 4 module slots and redundant power supply. It provides great porting flexibility for network deployment by offering various and combinable management modules and standard interfaces. With 10-Gigabit Ethernet technology applied, the XGS3-42000R provides broad bandwidth and powerful processing capacity. The Chassis Switch supports wire-speed L2/L3 forwarding and high routing performance for IPv4 and IPv6 protocols.

XGS3-42000R

- 160-port 10/100/1000BASE-T copper
- 156 1000BASE-SX/LX SFP fiber slots
- 60 10G XFP fiber slots
- 6 40G QSFP+ fiber slots
- 19-inch, 6U rack-mount

....

- Gigabit wire-speed Layer 3 IPv4 and IPv6 routing
- Four slots for optional Gigabit/10 Gigabit modules
- IP routing protocols: static routing, RIPv1/v2, OSPFv2, BGP4 & VRRP
- IP multicast routing: IGMP, PIM-DM/SM, DVMRP
- IEEE 802.1Q, Private VLAN and GVRP for VLAN management
- IEEE 802.1D/1w/1s Spanning Tree Protocol
- IEEE 802.1x, RADIUS, TACACS+, SSH and SSL
- L2, L3 and L4 Access Control List and QoS
- 100~240V AC redundant power system

Layer 3 Managed Chassis Switches
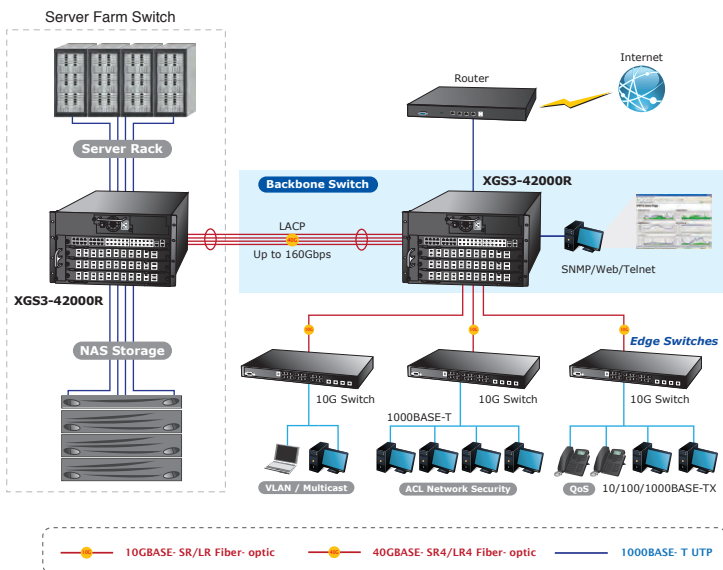
Module	XGS3-M16C8S	XGS3-S44S4X	XGS3-S20X2Q	XGS3-S16C8S4X	XGS3-S48G	XGS3-PWR-AC
Product						
Type	Management	Standard	Standard	Standard	Standard	Power
10/100/1000T	16 (Shared)	-	-	16 (Shared)	48	-
1000SX/LX SFP	24	44	-	24	-	-
10G XFP	-	4	20	4	-	-
40G QSFP+	-	-	4	-	-	-
Power Unit	-	-	-	-	-	500W

10G Full Layer 3 Managed Switches

XGS3 Series

IPv6/IPv4 Routing

Stackable

Positioned as the distribution and aggregation layer switch for large networks, PLANET XGS3 Series, a multi-layer IPv6/IPv4 10Gbps Ethernet Routing Switch, supports IP stacking technology to manage and configure up to 24 units via one single IP address efficiently. It serves campus and IP metropolitan networks by offering advanced intelligent and secure features as well as high performance and flexibility. The XGS3-24242 can also be an excellent choice as a core layer switch for enterprises, data centers and small- and medium-sized networks. With excellent hardware design and software features in a compact 1U height format, PLANET XGS3 Series comes with the following advanced technologies:

- Hardware-based IPv6/IPv4 high routing performance
- IPv6/IPv4 dual stack management
- 10G Ethernet switching
- Single IP address management
- Redundant power system

XGS3-24042

- 10/100/1000BASE-T port x 24
- 100/1000BASE-X SFP port x 4 shared with Port-21 to Port-24
- 10GBASE-X SFP+ port x 4
- Dual 100~240V AC redundant power

XGS3-24242

- 100/1000BASE-X SFP port x 24
- 10/100/1000BASE-T port x 16 shared with Port-1 to Port-16
- 10GBASE-X SFP+ port x 4
- QSFP+ port x 2 for hardware stacking

- Gigabit wire-speed Layer 3 IPv4 and IPv6 routing
- IP routing protocols: static routing, RIPv1/v2, OSPFv2, BGP4 & VRRP
- IP multicast routing: IGMP, PIM-DM/SM, DVMRP
- IEEE 802.1Q, Private VLAN and GVRP for VLAN management
- L2, L3 and L 4 Access Control List and IEEE 802.1x support
- SNMP v1/v2c/v3 and RMON Group 1, 2, 3, 9
- IP stacking management, up to 24 units
- 100~240V AC and -48V DC redundant power
- 19-inch,1U rack-mount

ISP/Telecom Backbone Routing Switch

FTTx Node

FTTH

XGS3-24242
XGS3 ISP Node Routing

20 km

2 km

FTTB

40 km

FTTP

Work Group Switch

Gigabit Media Converter

20 km

10 km

10 km

Video

Data

Voice

ISP

1000Base- SX/LX Fiber- optic
10GBase- SR/LR Fiber- optic
1000Base- T UTP

Layer 3 Enterprise Stackable Managed Switches

SGS-6341 Series

L3 — RIP Routing   L3 — OSPF Routing

Cost-effective Layer 3 Routing Solution for Enterprise Intranet Networking

Designed for enterprises and small- and medium-sized businesses where an intranet routing network is built, PLANET SGS-6341 series, a Layer 3 Stackable Gigabit Managed Switch, provides hardware-based Layer 3 routing capability with IPv4 and IPv6 static routing, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First) routing features which allow to cross over different VLANs and different IP addresses, and performs effective data traffic control for security, VoIP and video streaming applications.

Efficient IP Stacking Management

The SGS-6341 series supports IP stacking function that helps network managers to easily configure up to 24 switches in the same series via one single IP address instead of connecting and setting each unit one by one. It enables centralized management regardless of the series of switches being distributed in various locations. New switches can be flexibly added to the IP stacking group when network expands.

- IP Routing protocols: Static Routing, RIPv1/v2 and OSFPv2
- IPv4 and IPv6 Web Interface; SNMP v1, v2c and v3; SSH and SSL management
- IEEE 802.1Q VLAN, Private VLAN and GVRP
- IEEE 802.1w/1s/1D Spanning Tree Protocol
- Layer 2,3 and 4 Access Control List and QoS
- IGMP Snooping v1, v2 and v3; and MLD Snooping v1 and v2
- IP stack: up to 24 units and single IP address stack management
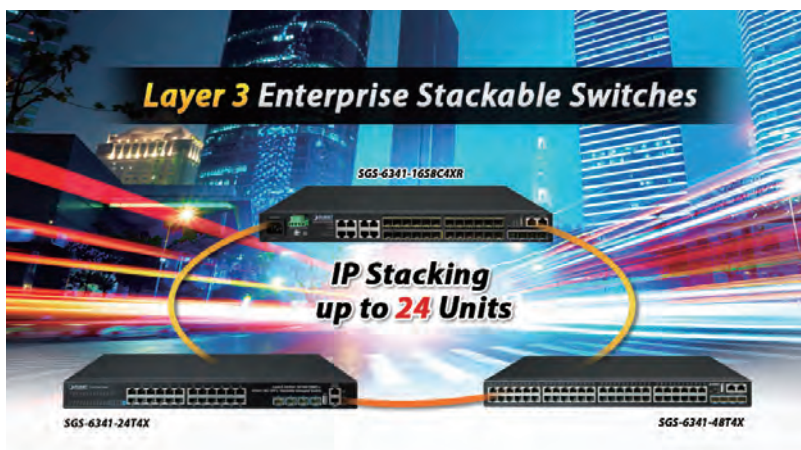
SGS-6341-48T4X

- 10/100/1000BASE-T port x 48
- 10GBASE-X SFP+ port x 4
- USB interface for configuration file backup or upload

SGS-6341-16S8C4XR

- 10/1000BASE-X SFP port x 24
- 10/100/1000BASE-T port x 8 shared with Port-21 to Port-24
- 10GBASE-X SFP+ port x 4
- 100~240V AC and 12V DC redundant power system
- Smart fan design for silent operation

SGS-6341-24T4X

- 10/100/1000BASE-T port x 24
- 10GBASE-X SFP+ port x 4

SGS-6341-24P4X

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 10GBASE-X SFP+ port x 4
- 370-watt PoE budget

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

100G and Layer 3 Fiber Managed Switches

XGS-6350 Series

L3 RIP Routing   L3 OSPF Routing

Powerful Layer 3 Routing with Multiple 10Gbps~100Gbps Fiber Solution

PLANET XGS-6350 series, consisting of Layer 3 10Gbps~100Gbps Managed Switches, provides hardware-based Layer 3 routing capability with IPv4/IPv6 static routing, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First) routing features. With ultra-high switching fabric, the XGS-6350 series can handle extremely large amounts of data in a secure topology linking to backbone or high capacity servers for enterprises, data centers, campuses and so on where VoIP, video streaming, and multicast applications are utilized.

XGS-6350-24X4C

- 40G/100GbE QSFP28 port x 4
- 1G/10G SFP+ port x 24

XGS-6350-12X8TR

- 1G/10G SFP+ port x 12
- 10/100/1000BASE-T port x 8
- Dual 100~240V AC redundant power
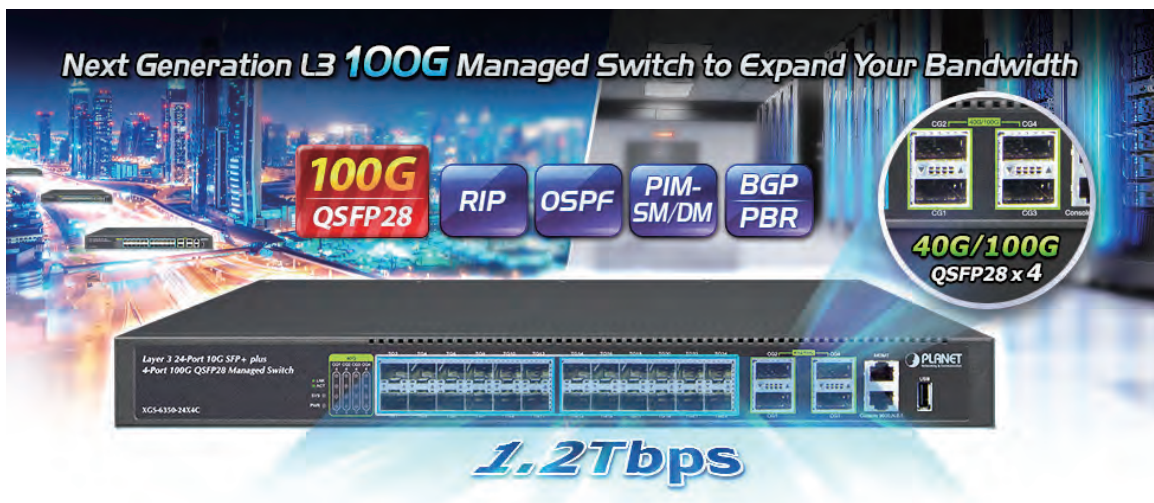
XGS-5250 Series

The XGS-5250-12X8CR is a highly cost-effective managed switch with 12-port 10G SFP+, offering data centers high performance at an economical price. With a total network transmission speed up to 240Gbps, it is able to manage cloud computing data and high-resolution video transmission.

XGS-5250-12X8CR

- 1G/10G SFP+ port x 12
- 10/100/1000BASE-T port x 8
- 100/1000BASE-X SFP port x 8
- Dual 48~60V DC and 100~240V AC redundant power
- Front access design

Touch LCD 10G Layer 3 IPv6 Managed Gigabit Switches

TAIWAN EXCELLENCE 2018

Intuitive LCD for Efficient Management

PLANET **GS-5220 Smart LCD Switch** series provides an intuitive touch panel on their front panels that facilitate the Ethernet management and PoE PD management. They greatly promote management efficiency in large-scale network and feature the following special management and status functions:

- IP address, VLAN and QoS configuration
- PoE management and status
- Port management and status/SFP information
- Troubleshooting: cable diagnostic and remote IP ping
- Maintenance: reboot, factory default and save configuration

The GS-5220 LCD PoE switch models featuring PLANET intelligent PoE management to improve the availability of critical business applications have an awesome feature -- ONVIF Support -- which is specifically designed for co-operating with Video IP Surveillances. From the GUI, you just need one click to search and show all of the ONVIF devices via network application, thus enabling to pinpoint the location of the particular surveillance device for easier inspection and planning.

GS-5220-24T4XV(R)

- 10/100/1000BASE-T port x 24
- 1G/10G SFP+ port x 4
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-16T2XV(R)

- 10/100/1000BASE-T port x 16
- 1G/10G SFP+ port x 2
- R model supports 100~240V AC/48~60V DC redundant power

PoE Models

GS-5220-24UP(L)4XV(R)

- 10/100/1000BASE-T with 802.3bt PoE port x 24
- 1G/10G SFP+ port x 4
- 400-/600-watt PoE budget
- Up to 75 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-16UP2XV(R)

- 10/100/1000BASE-T with 802.3bt PoE port x 16
- 1G/10G SFP+ port x 2
- 400-watt PoE budget
- Up to 75 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

60W

GS-5220-24P(L)4XV(R)

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 1G/10G SFP+ port x 4
- 400-/600-watt PoE budget
- Up to 36 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-16P2XV(R)

- 10/100/1000BASE-T with 802.3at PoE+ port x 16
- 1G/10G SFP+ port x 2
- 220-watt PoE budget
- Up to 36 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

10G Layer 3 IPv6 Managed Gigabit Switches

GS-5220 Series

PLANET GS-5220 10G series is the Layer 3 IPv6 and IPv4 Gigabit Enternet switch with 10Gbps uplink to greatly support SMB and enterprise networks to achieve 10Gbps high performance in a cost-effective way. The GS-5220 Series can work with PLANET ENW-9800 series or the third-brand 10Gbps server adapter to help SMBs build 10Gbps Ethernet network providing 10Gbps NAS (Network Attached Storage) or heavy transmission of video streaming service at an affordable price.

- IP Routing Protocols: Static Routing and OSPFv2
- 4 SFP+ slots support dual-speed, 10GBASE-SR/LR & 1GBASE-SX/LX/BX
- IPv6 Web interface; SNMP v1, v2c and v3; SSH and SSL management
- IEEE 802.1Q VLAN, Private VLAN, Q-in-Q, Protocol-based VLAN and MAC-based VLAN
- IEEE 802.1D/1w/1s Spanning Tree Protocol for Ethernet redundancy
- Layer 2, 3 and 4 Access Control List
- IGMP Snooping v1, v2 and v3; and MLD Snooping v1 and v2
- 19-inch,1U rack-mount

Multigigabit Layer 2+ IPv6 Managed PoE Switches

MGS-5220-8UP2X / MGS-5220-8P2X

The MGS-5220-8UP2X and MGS-5220-8P2X series is PLANET's first Multigigabit Layer 2+ Managed Switch designed in compact size. Offering 8-port PoE 2.5GBASE-T and 2-port dual speed 10G SFP+, it breaks the bandwidth limitation of connecting the wireless network with the wired network. Featuring L2+ routing and PLANET Intelligent PoE functions, it provides a highly-secure, environment-friendly network management and accelerates the deployment of wireless network infrastructure for smart cities.

- 8 100/1000/2.5GBASE-T ports, 2 dual speed SFP+ slots
- 8 ports with 30~95W PoE output
- Intelligent PoE functions including PD alive check, PoE schedule, scheduled power recycling and over-temperature protection
- 13-inch compact size

GS-5220-16T4S2X(R)

- 10/100/1000BASE-T port x 16
- 100/1000BASE-X SFP port x 4
- 1G/10G SFP+ port x 2
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-20T4C4X(R)

- 10/100/1000BASE-T port x 24
- 100/1000BASE-X SFP port x 4
- 10G SFP+ port x 4

PoE Models

GS-5220-24UP(L)4X(R)

- 10/100/1000BASE-T with 802.3bt PoE port x 24
- 100/1000BASE-X SFP port x 4
- 1G/10G SFP+ port x 4
- 400-/600-watt PoE budget
- Up to 75 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-16UP4S2X(R)

- 10/100/1000BASE-T with 802.3bt PoE port x 16
- 100/1000BASE-X SFP port x 4
- 1G/10G SFP+ port x 2
- 400-watt PoE budget
- Up to 75 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-48P(L)4X(R)

- 10/100/1000BASE-T with 802.3at PoE+ port x 48
- 1G/10G SFP+ port x 4
- R model supports 100~240V AC/48~60V DC redundant power
- 400-/600-watt PoE budget
- Up to 36 watts per PoE port

GS-5220-24P(L)4X(R)

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 1G/10G SFP+ port x 4
- 400-/600-watt PoE budget
- Up to 36 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-8P2T2X/GS-5220-8UP2T2X

- 10/100/1000BASE-T with 802.3at/bt PoE+ portx 8
- 10/100/1000BASE-T port x 2
- 10G SFP+ port x 2
- 240-watt PoE budget
- Up to 36/75 watts per PoE port

MGS-5220-8P2X

- 2500/1000/100/10BASE-T with 802.3at PoE+ port x 8
- 1G/10G SFP+ port x 2
- 240-watt PoE budget
- Up to 36 watts per PoE port

10G Layer 2+ IPv6 Stackable Managed Gigabit Switches

SGS-5220 Series

IPv6 Management

L3 Static Routing

The SGS-5220 series applies the advantage of the stacking technology to managing the stack group with one single IP address. Up to 16 units, 384 Gigabit Ethernet ports and 32 10Gbps SFP+ slots can be managed by a stacking group and you can add ports and functionality as needed.

- Single IP management/Plug and Play hardware stacking
- Up to 16 units, 384 Gigabit ports and 32 10Gbps SFP+ slots connectivity per stack group
- IPv4 and IPv6 Layer 3 static routing
- IEEE 802.1Q VLAN, Private VLAN and Q-in-Q
- IGMP Snooping v1, v2 and v3; and MLD Snooping v1 and v2
- IEEE 802.1s MSTP and loop protection
- IPv6 Web interface; SNMP v1, v2c and v3; and SSH and SSL management

SGS-5220-24T2X

- 10/100/1000BASE-T port x 24
- 100/1000BASE-X SFP port x 4
- 10G SFP+ uplink port x 2
- 10G SFP+ stacked port x 2

SGS-5220-24P2X

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 100/1000BASE-X SFP port x 4
- 10G SFP+ uplink port x 2
- 10G SFP+ stacked port x 2
- IEEE 802.3af/at Power over Ethernet
- 440-watt PoE budget, up to 24 PoE powered devices
- Up to 30 watts per port

SGS-5220-24S2XR

- 100/1000BASE-X SFP port x 24
- 10/100/1000BASE-T port x 8
- 10G SFP+ uplink port x 2
- 10G SFP+ stacked port x 2
- 100~240V AC and 36~60V DC redundant power

Layer 2+ IPv6 Managed Metro Switches

MGSW Series

IPv6 Management

L3 Static Routing

DI/DO

To fulfill the growing demand for IP network deployment from LAN to MAN (Metropolitan Area Network), PLANET MGSW Gigabit Metro Ethernet Switch Series is specially designed to deliver profitable wide-ranging Ethernet network based on the optical fiber technology. Furthermore, it adopts "Front Access" design for easy wiring and maintenance of the MGSW Series in the cabinet.

- Redundant power system: dual -36V~-60V DC and 100V~240V AC
- -10 to 60 degrees C operating temperature
- IEEE 802.1Q VLAN, Protocol VLAN, GVRP and MVR
- IEEE 802.1D/1w/1s Spanning Tree Protocol for Ethernet redundancy
- Policy-based QoS, bandwidth control and storm control
- Layer 2, 3 and 4 Access Control List and port security
- Web; SNMP v1, v2c, v3; and Telnet remote IP management
- IPv6 and IPv4 dual stack management
- Digital input and digital output
- Front access design
- 19-inch,1U rack-mountable installation

MGSD-10080F

- 100/1000BASE-X SFP port x 8
- 10/100/1000BASE-T port x 2
- Supports ITU-G.8032 Ethernet Ring Protection Switching (ERPS)

MGSW-24160F

- 100/1000BASE-X SFP port x 16
- 10/100/1000BASE-T port x 8

MGSW-28240F

- 10/100/1000BASE-T port x 4
- 100/1000BASE-X SFP port x 24
- 10G SFP+ port x 4
- Supports ITU-G.8032 Ethernet Ring Protection Switching (ERPS)

TAIWAN EXCELLENCE 2013

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Layer 2+ IPv6 Managed Gigabit Switches

WGS Series/GS-5220 Series

IPv6 Management

L3 Static Routing

PLANET WGS and GS-5220 series support both IPv4 and IPv6 management functions, and IPv4 and IPv6 Layer 3 static routing. It offers IPv4 and IPv6 VLAN routing feature which allows to crossover different VLANs and different IP addresses for the purpose of having a highly-secure, flexible management and simpler networking applications.

The GS-5220 Fiber Switches as the fiber backbone switch providing 24~44 100/1000Base-X dual-speed SFP slots can flexibly work with suitable SFP transceivers to have a long connection of up to 120km via optic fiber cabling.

With easy and friendly management interfaces and plenty of management functions included, PLANET WGS and GS-5220 series is the best choice for ISPs to build the IPv6 FTTx edge service and for SMBs to connect with IPv6 network.

- IPv4 and IPv6 Layer 3 static routing
- IPv6 Web interface; SNMP v1, v2c and v3; SSH and SSL management
- Static and IEEE 802.3ad Link Aggregation
- DHCP snooping/ARP Inspection and IP Source Guard
- IEEE 802.1Q VLAN, Private VLAN, Q-in-Q, Protocol-based VLAN and MAC-based VLAN
- IEEE 802.1D/1w/1s Spanning Tree Protocol
- QoS control list and bandwidth control
- 802.1X, RADIUS and TACACS+ authentication
- Layer 2, 3 and 4 Access Control List
- IGMP snooping v1, v2 and v3; and MLD snooping v1 and v2
- PoE models support PD alive check, PoE schedule, scheduled power recycling and over temperature protection

WGSD-10020

- 10/100/1000BASE-T port x 8
- 100/1000BASE-X SFP port x 2
- 13-inch desktop size
- Fanless

WGSW-24040/WGSW-24040R

- 10/100/1000BASE-T port x 24
- 100/1000BASE-X SFP port x 4
- 100~240V AC/-48V DC redundant power

GS-5220-16S8C/GS-5220-16S8CR

- 10/100/1000BASE-T port x 8
- 100/1000BASE-X SFP port x 24
- Each SFP slot supports DDM
- 100~240V AC/-48V DC redundant power

GS-5220-44S4C

- 100/1000BASE-X SFP port x 48
- 10/100/1000BASE-T port x 4
- Each SFP slot supports DDM
- 1U height, 19-inch rack-mountable

GS-5220-48T4X

- 10/100/1000BASE-T port x 48
- 100/1000BASE-X SFP port x 4
- 10G SFP+ port x 4

GS-5220-46S2C4X

- 100/1000BASE-X SFP port x 48
- 10G SFP+ port x 4
- 10/100/1000BASE-T port x 2
- 1U height, 19-inch rack-mountable

PoE Models

WGSD-10020HP

- 10/100/1000BASE-T with 802.3at PoE+ port x 8
- 100/1000BASE-X SFP port x 2
- 150-watt PoE budget
- 13-inch desktop size, 1U rack-mount

GS-5220-8P2T2S

- 10/100/1000BASE-T with 802.3at PoE+ port x 8
- 10/100/1000BASE-T port x 2
- 100/1000BASE-X SFP port x 2
- 240-watt PoE budget
- 13-inch desktop size, 1U rack-mountable
- Smart fan design for silent operation

WGSW-20160HP

- 10/100/1000BASE-T with 802.3at PoE+ port x 16
- 10/100/1000BASE-T port x 4
- 100/1000BASE-X SFP port x 4
- 230-watt PoE budget

WGSW-24040HP/WGSW-24040HP4

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 100/1000BASE-X SFP port x 4
- 220/440-watt PoE budget

Layer 2/4 IPv4/IPv6 Managed Gigabit Switches

GS-4210 Series

PLANET GS-4210/WGSW switch series is perfectly designed for SMB and SOHO network infrastructures. Besides the hot IPv6 and IPv4 management, and abundant L2/L4 switching functions, the series of switch adopts the fanless and green technology to provide a quiet, energy saving, high-speed and reliable office network environment. It benefits the SMB and SOHO users as it is in the Gigabit network environment with a low cost of Fast Ethernet switches. The series of switch is quite suitable for the next generation network deployment and offers the lowest total cost of ownership. It is the best investment for business expansion or upgrading its network infrastructure.

- IEEE 802.1Q VLAN, Q-in-Q, Private VLAN and GVRP
- IEEE 802.1w RSTP, IEEE 802.1s MSTP and loop protection
- IGMP snooping v2 and v3, and MLD snooping
- QoS, Voice VLAN and bandwidth control
- Layer 2, 3 and 4 Access Control List
- IEEE 802.1X and RADIUS authentication
- IPv4 and IPv6 Web interface; Telnet; SNMP v1, v2c and v3; and SSH and SSL management
- PoE models support PD alive check, PoE schedule, scheduled power recycling and over temperature protection

MSTP for Ring IP Surveillance Application
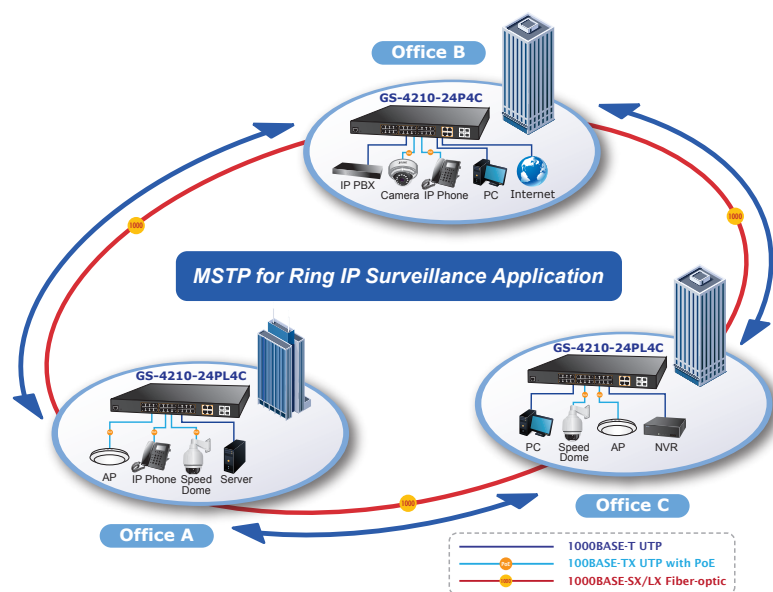
GS-4210-16T2S

- 10/100/1000BASE-T port x 16
- 100/1000BASE-X SFP port x 2
- Fanless

GS-4210-24T2S

- 10/100/1000BASE-T port x 24
- 100/1000BASE-X SFP port x 2
- Fanless

GS-4210-48T4S

- 10/100/1000BASE-T port x 48
- 100/1000BASE-X SFP port x 4
- Fanless

WGSW-28040

- 10/100/1000BASE-T port x 28
- 100/1000BASE-X SFP port x 4
- Fanless

PoE Models

GS-4210-24P2S

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 100/1000BASE-X SFP slots x 2
- 300-watt PoE budget
- Up to 30 watts per PoE port

GS-4210-16P2S

- 10/100/1000BASE-T with 802.3at PoE+ port x 16
- 100/1000BASE-X SFP port x 2
- 220-watt PoE budget
- Up to 36 watts per PoE port

GS-4210-16P4C

- 10/100/1000BASE-T with 802.3at PoE+ port x 16
- 10/100/1000BASE-T port x 4
- 100/1000BASE-X SFP port x 4
- 220-watt PoE budget
- Up to 30 watts per PoE port

GS-4210-24P4C/GS-4210-24PL4C

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 10/100/1000BASE-T port x 4
- 100/1000BASE-X SFP port x 4
- 220/440-watt PoE budget
- Up to 30 watts per PoE port

GS-4210-48P4S

- 10/100/1000BASE-T with 802.3at PoE+ port x 48
- 100/1000BASE-X SFP port x 4
- 400-watt PoE budget
- Up to 36 watts per PoE port

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Layer 2/4 IPv6 Desktop-size Managed Gigabit Switches

GSD-1020S

- 10/100/1000BASE-T port x 8
- 100/1000BASE-X SFP port x 2
- 10-inch desktop size, 19-inch rack-mountable
- Internal power supply

GSD-1002M

- 10/100/1000BASE-T port x 8
- 100/1000BASE-X SFP port x 2
- 1 port supports 802.3af/at PoE DC 48~56V in-line power
- Compact size, wall-mount

PLANET GSD & GS-4210 desktop Gigable Switch series, the smallest Managed Gigabit Switch in the networking industry, integrates with 8-port 10/100/1000BASE-T copper and 2 extra 100/1000BASE-X SFP fiber optic interfaces in a handheld size metal case, with powerful L2 and L4 network switching engine and advanced IPv6 and IPv4 management functions inside. Without space limitation, it is easy to install the desktop-size switches, ideal for communication closet or desktop. It is ready to bring superior usability and improves user experiences.

- IEEE 802.1Q VLAN, Q-in-Q, Private VLAN and GVRP
- IEEE 802.1w RSTP, IEEE 802.1s MSTP and loop protection
- IGMP snooping v2 and v3, and MLD snooping
- QoS, Voice VLAN and bandwidth control
- Layer 2, 3 and 4 Access Control List
- IEEE 802.1X and RADIUS authentication
- IPv4 and IPv6 Web interface; Telnet; SNMP v1, v2c and v3; and SSH and SSL management

PoE Models

GS-4210-8P2S

- 10/100/1000BASE-T with 802.3at PoE+ port x 8
- 100/1000BASE-X SFP port x 2
- 110-watt PoE budget
- 13-inch desktop size, 1U rack-mountable

GS-4210-8P2T2S

- 10/100/1000BASE-T with 802.3at PoE+ port x 8
- 10/100/1000BASE-T port x 2
- 100/1000BASE-X SFP port x 2
- 240-watt PoE budget
- 13-inch desktop size, 1U rack-mountable
- Smart fan design for silent operation

Layer 2 Unmanaged Gigabit Switches

- Auto MDI/MDIX on each port
- CSMA/CD protocol
- Store-and-Forward

- MAC address learning and aging
- Flow control to eliminate packet loss
- Auto-negotiation

GSW-1601

- 10/100/1000BASE-T port x 16
- 9K jumbo frame
- 8K MAC address table
- Fanless
- 19-inch, 1U rack-mountable

GSW-2401

- 10/100/1000BASE-T port x 24
- 9K jumbo frame
- 8K MAC address table
- Fanless
- 19-inch, 1U rack-mountable

GSD-503/GSD-803

- 10/100/1000BASE-T port x 5 (GSD-503)
- 10/100/1000BASE-T port x 8 (GSD-803)
- 9K jumbo frame
- Green networking for energy saving
- Made of metal

GSD-504/GSD-804

- 10/100/1000BASE-T port x 5 (GSD-504)
- 10/100/1000BASE-T port x 8 (GSD-804)
- 9K jumbo frame
- Green networking for energy saving
- Made from plastic

GSD-603F

- 10/100/1000BASE-T port x 5
- 1000BASE-X SFP port x 1
- 9K jumbo frame
- Made of metal

GSD-805

- 10/100/1000BASE-T port x 8
- 9K jumbo frame
- Internal power supply
- Desktop/wall-mount

GSD-1603

- 10/100/1000BASE-T port x 16
- 9K jumbo frame
- 8K MAC address table
- Fanless
- Desktop/wall-mount

Layer 2 Unmanaged Fast Enternet Switches

FSD-503/FSD-803

- 10/100BASE-TX port x 5 (FSD-503)
- 10/100BASE-TX port x 8 (FSD-803)
- One power button
- Made of metal

SW-504/SW-804

- 10/100BASE-TX port x 5 (SW-504)
- 10/100BASE-TX port x 8 (SW-804)
- 802.1Q VLAN transparency
- Made from plastic

FNSW-1601

- 10/100BASE-TX port x 16
- 8K MAC address table
- Green networking for energy saving
- 802.1Q VLAN transparency
- 19-inch, 1U rack-mountable

FNSW-2401

- 10/100BASE-TX port x 24
- 8K MAC address table
- Green networking for energy saving
- 802.1Q VLAN transparency
- 19-inch, 1U rack-mountable

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

PLANET **Industrial Modbus** Switches and Gateways

Providing Flexible Network Connectivity for Industry 4.0

IP Code 30/40

60W PoE

75°C / -40°C

RING

SFP DDM

L3 Static Routing
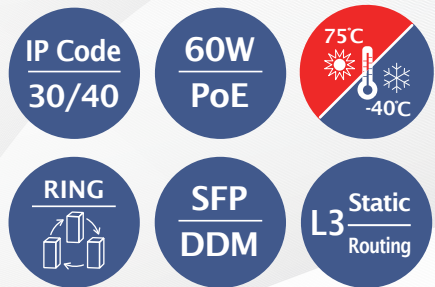
Easily Integrated with SCADA / HMI system

- ☑ RS232/RS422/RS485
- ☑ Modbus TCP/RTU/ASCII

- ☑ System Information
- ☑ Port Information
- ☑ Packet Information

Industrial Ethernet

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Unique Flat-type Design for Easy Management

To facilitate the network deployment in any space-limited locations like wall enclosure or electric box found in buildings or outdoors, PLANET has the industrial Ethernet switches and wireless AP designed in a compact flat type. The products can be installed by fixed wall mounting, magnetic wall mounting or DIN rail, thereby making its usability more flexible.

Industry-leading Integration of PoE Technology and Renewable Energy

PLANET Industrial Renewable Energy PoE Switch utilizes the inexhaustible and natural source of energy, such as solar, wind and hydroelectric power to conserve energy, and incorporates 802.3at high power PoE technology to enable network deployment anywhere without any obstacles of geographical barrier. It greatly accelerates the installations of wireless LAN or IP surveillance systems in remote areas.

Modbus TCP Enables Flexible Network Connectivity for Factory Automation

With the supported Modbus TCP/IP protocol, PLANET Modbus TCP Ethernet Switches can easily integrate with SCADA systems, HMI systems and other data acquisition systems in factory floors. It enables administrators to remotely monitor the industrial Ethernet switch's operating information, port information and communication status, thus achieving enhanced monitoring and maintenance of the entire factory.

EN50155 Ready for Intelligent Transportation Systems

Bringing uninterrupted operation and reliable network transmission for rolling stock applications, PLANET EN50155 compliant Industrial Ethernet Switches provide waterproof M12/RJ45 interfaces and guarantee stable Ethernet operation performance under high vibration and shock environment. The switches also feature wide-ranging operating temperature, redundant ring recovery, and intelligent PoE PD and power management functions, ensuring the highest level of reliability for mission-critical applications in any difficult environment.

Layer 3 and Layer 2 Industrial Managed Gigabit Switches

PLANET Industrial Ethernet Switches are industrially hardened to be specially designed to operate reliably in electrically harsh and climatically demanding environment. PLANET Layer 3 and Layer 2 Industrial Managed Switches, with model names starting with IGS or IGSW, include Managed Switches, Unmanaged Switches and PoE Switches. They all support full Gigabit port. The capital 'T' in the model name means that the product can support and operate under wide-ranging temperature from -40 to 75 degrees C.

Redundant Ring and Fast Recovery for Surveillance System

The IGS and IGSW series features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) technology, Spanning Tree Protocol (802.1s MSTP), and redundant power input system into customer's industrial automation network to enhance system reliability and uptime in harsh factory environments. In certain simple ring network, the recovery time of data link can be as fast as 20ms.

IGS-6325-20T4C4X
- 24-port 10/100/1000BASE-T
- 4-port 100/1000BASE-X SFP
- 4-port 1/10GBASE-X SFP+
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- L3 static route and OSPFv2 supported
- DI and DO supported
- 19-inch, 1U rack-mountable
- 100~240V AC and 36~60V DC redundant power system

IGS-6325-20S4C4X
- 4-port 10/100/1000BASE-T
- 24-port 100/1000BASE-X SFP
- 4-port 1/10GBASE-X SFP+
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route and OSPFv2 supported
- DI and DO supported
- 19-inch, 1U rack-mountable
- 100~240V AC and 36~60V DC redundant power system

IGS-5225-20T4C2X
- 24-port 10/100/1000BASE-T
- 4-port 100/1000BASE-X SFP
- 2-port 1/10GBASE-X SFP+
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
- DI and DO supported
- 19-inch, 1U rack-mountable
- 100~240V AC and 36~60V DC redundant power system

IGS-5225-16T4S/IGSW-24040T
- 16/24-port 10/100/1000BASE-T
- 4-port 100/1000BASE-X SFP
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- DI and DO supported
- ERPS ring supported
- 19-inch, 1U rack-mountable
- 100~240V AC and 36~60V DC redundant power system

IGS-5225-8T2S2X
- 8-port 10/100/1000BASE-T
- 2-port 100/1000BASE-X SFP
- 2-port 10G BASE-X SFP+
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- IEEE 1588 supported
- Static route supported
- -40~75 degrees C wide operating temperature
- DI and DO supported

IGS-20040MT/IGS-12040MT
- 16/8-port 10/100/1000BASE-T
- 4-port 100/1000BASE-X SFP
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
- DI and DO supported

IGS-10080MFT/IGS-10020MT
- 8-port 100/1000BASE-X SFP (IGS-10080MFT)
- 2-port 10/100/1000BASE-T (IGS-10080MFT)
- 8-port 10/100/1000BASE-T (IGS-10020MT)
- 2-port 100/1000BASE-X SFP (IGS-10020MT)
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
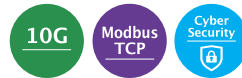
IGS-5225-4T2S
- 4-port 10/100/1000BASE-T
- 2-port 100/1000BASE-X SFP
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported

IGS-801M
- 8-port 10/100/1000BASE-T
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP Snooping
- Loop protection

Layer 2 Industrial Gigabit Switches

PLANET advanced industrial hardened Ethernet Switch series comes with a slim type, IP30 metal case. The compact IP30 standard metal case allows either DIN rail or wall mounting for efficient use of cabinet space. The capital 'T' in the model name means that the product can support and operate under wide-ranging temperature from -40 to 75 degrees C.

The Layer 2 Industrial Switch series incorporates redundant power supply system into customer's industrial automation network to enhance system reliability and uptime in the factory harsh environments. It protects customer's industrial network connectivity with power redundant ability. They provide IP30 metal case and 100BASE-FX port or Gigabit TP/SFP combo interfaces for long-distance uplink.

IGS-500T/IGS-501T
- 5-port 10/100/1000BASE-T
- -40 to 75 degrees C wide-ranging temperature
- IP30 metal case
- EEE (IGS-500T)
- Compact size (IGS-501T)

IGS-1600T/IGS-1820TF
- 16-port 10/100/1000BASE-T
- 2-port 100/1000BASE-X SFP (IGS-1820TF)
- -40~75 degrees C wide-ranging temperature
- IP40 metal case
- 12~48V DC, 24VACredundant power

IGS-801T
- 8-port 10/100/1000BASE-T
- -40 to 75 degrees C wide-ranging temperature
- IP30 metal case
- EEE

IGS-620TF
- 4-port 10/100/1000BASE-T
- 2-port 100/1000BASE-X SFP (DIP control)
- -40 to 75 degrees C wide-ranging temperature
- IP30 metal case
- Dual SFP ports with auto link redundancy via DIP selection

IGS-1020TF
- 10/100/1000BASE-T x 8 ports
- 100/1000BASE-X SFP x 2 ports
- IEEE 802.3az EEE Protocol based power saving
- 12 ~ 48V DC, 24V AC redundant power
- -40 to 75 degree C operating temperature
- IP 30 metal case, DIN rail and wall mount design

IGT-1205AT
- 1-port 10/100/1000BASE-T
- 2 x SFP interfaces compatible with 100FX/1000SX/LX (DIP control)
- -40 to 75 degrees C wide-ranging temperature
- IP30 metal case
- Dual SFP ports with auto link redundancy via DIP selection

Layer 2 Industrial Fast Ethernet Switches

ISW-500T/ISW-800T
- 5/8-port 10/100BASE-TX
- -40 to 75 degrees C operating temperature
- IP30 metal case
- EEE

ISW-501T/ISW-801T
- 5/8-port 10/100BASE-TX
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
- EEE

ISW-511T/ISW-511TS15
- 4-port 10/100BASE-TX
- 1-port 100BASE-FX
- Supports multi-mode fiber, 2km/15km distance
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

ISW-621T/ISW-621TS15
- 4-port 10/100BASE-TX
- 2-port 100BASE-FX
- Supports multi-mode fiber, 2km/15km distance
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

ISW-621TF
- 4-port 10/100BASE-TX
- 2-port 100BASE-FX SFP
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

ISW-1600T/IFGS-1822TF
- 16-port 10/100BASE-TX
- 2-port Gigabit TP/SFP combo interface (IFGS-1822T)
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Layer 3 and Layer 2 Industrial Managed Gigabit PoE Switches

PLANET Industrial Managed PoE Switch series in-line power follows standard IEEE 802.3af, IEEE 802.3at or IEEE 802.3bt and is able to give power to PoE compliant devices at the distance up to 100 meters through the 4-pair Cat. 5/5e UTP wire. With data and Power over Ethernet from one unit, the industrial PoE series can reduce cable deployment and eliminate the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. Carrying PLANET's uniquely Intelligent PoE Functions such as PoE schedule, scheduled power recycling and PD alive check, the Industrial Managed PoE Switch Series greatly enhances the efficiency of network management and helps to save power and cost for the hardened network.

IGS-6325-24P4X/IGS-6325-24P4S

- 24-port 10/100/1000BASE-T
- 4-port 100/1000BASE-X SFP
- 4-port 1/10GBASE-X SFP+
- L3 static route and OSPFv2 supported
- 400-watt PoE budget/remote power control
- IPv6/IPv4 Web, Telnet and SNMP management
- ERPS ring supported
- -40~75 degrees C wide operating temperature

IGS-6325-16P4S

- 16-port 10/100/1000BASE-T with 802.3at PoE+
- 4-port 100/1000BASE-X SFP
- IPv6/IPv4 Web, Telnet and SNMP management
- ERPS ring supported
- -40~75 degrees C wide operating temperature
- DI and DO supported
- L3 Static route and OSPFv2 supported

IGS-5225-8P2S2X

- 8-port 10/100/1000BASE-T with 802.3at PoE+
- 240-watt PoE budget/remote PoE power control
- -40 ~ 75 degrees C wide operating temperature
- 48 ~ 56V DC redundant power design
- IEEE 802.1w/1s STP, IEEE 802.1Q VLAN and IGMP snooping v2 and v3
- ERPS ring supported
- L3 static route and OSPFv2 supported
- DI and DO supported

IGS-5225-24P4S

- 24-port 10/100/1000BASE-T with 802.3at PoE+
- 4-port shared 100/1000BASE-X SFP
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
- -40 to 75 degrees C wide operating temperature
- DI and DO supported
- 19-inch, 1U rack-mountable

IGS-20160HPT

- 16-port 10/100/1000BASE-T with 802.3at PoE+
- 2-port 10/100/1000BASE-T
- 2-port 100/1000BASE-X SFP
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
- -40 to 75 degrees C wide operating temperature
- DI and DO supported
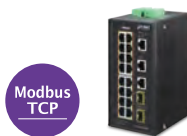
IGS-5225-4P2S/IGS-5225-8P2T2S/IGS-5225-8P4S

- 8-port 10/100/1000BASE-T with 802.3at PoE+
- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 2-port 10/100/1000BASE-T (IGS-5225-8P2T2S)
- 2/4-port 100/1000BASE-X SFP
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
- -40~75 degrees C wide operating temperature
- DI and DO supported

IGS-10020HPT/IGS-10020PT

- 8-port 10/100/1000BASE-T with 802.3af/at PoE+
- 2-port 100/1000BASE-X SFP
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
- -40 to 75 degrees C wide operating temperature
- DI and DO supported
- 12~48V DC redundant power (IGS-10020HPT)

IGS-5225-4UP1T2S

- 4-port 10/100/1000BASE-T with 802.3bt/802.3at PoE
- 1-port 10/100/1000BASE-T
- 2-port 100/1000BASE-X SFP
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
- -40 to 75 degrees C wide operating temperature
- DI and DO supported
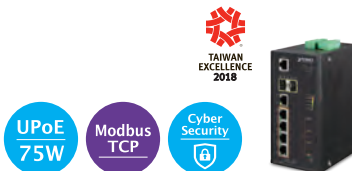
IGS-4215-8P2T2S/IGS-4215-4P4T2S/IGS-4215-4P4T

- 8-port 10/100/1000BASE-T with 802.3at PoE+
- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 4-port 10/100/1000BASE-T
- 2-port 100/1000BASE-X SFP (IGS-4215-8P2T2S/IGS-4215-4P4T2S)
- 2-port 10/100/1000BASE-T
- IPv6/IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- -40 to 75 degrees C wide operating temperature

Layer 2 Industrial Web Smart PoE Switches

ISW-504PS

- 4-port 10/100BASE-TX with 802.3af PoE
- 1-port 10/100BASE-TX
- -10 to 60 degrees C operating temperature
- IP30 metal case

ISW-514PS/ISW-514PS15

- 4-port 10/100BASE-TX with 802.3af PoE
- 1-port 100BASE-FX multi-mode / single port fiber optic, 2/15km
- -10 to 60 degrees C operating temperature
- IP30 metal case

ISW-514PSF

- 4-port 10/100BASE-TX with 802.3af PoE
- 1-port 100BASE-FX SFP
- -10 to 60 degrees C operating temperature
- IP30 metal case

Layer 2 Industrial PoE Switches/Extenders

PLANET industrial PoE switch series in-line power follows standard IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt and is able to give power to PoE compliant devices at the distance up to 100 meters through the 4-pair CAT5/5e UTP wire. As un-managed industrial PoE switch offers very easy-to-use Power over Ethernet function, customer just needs to connect their PoE device to un-managed industrial PoE switch, and just plug and play.

ISW-504PT

- 4-port 10/100BASE-TX with 802.3at PoE
- 1-port 10/100BASE-TX
- -40 to 75 degrees C wide operating temperature
- IP40 metal case
- 12~48V DC redundant power design
- 250m in distance with 25-watt power output in Extend mode

ISW-514PTF

- 4-port 10/100BASE-TX with 802.3at PoE
- 1-port 100BASE-FX SFP
- -40 to 75 degrees C wide operating temperature
- IP40 metal case
- 12~48V DC redundant power design
- 250m in distance with 25-watt power output in Extend mode

IFGS-1022HPT

- 8-port 10/100BASE-TX with 802.3at PoE+
- 2-port Gigabit TP/SFP combo for uplink
- 240-watt PoE budget
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
- 250m in distance with 30-watt power output in Extend mode

IGS-504HPT

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 1-port 10/100/1000BASE-T
- Smart PoE power usage LED indicator
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IGS-624HPT

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 2-port 100/1000BASE-X SFP (DIP Control)
- Dual SFP Ports Auto Link Redundant
- Mode supported
- Smart PoE power usage LED indicator
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IGS-1020PTF

- 8-port 10/100/1000BASE-T with 802.3at PoE+
- 2-port 100/1000BASE-X SFP combo for uplink
- 240-watt PoE budget
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
- 12~48V DC redundant power design
- 250m in distance with 25-watt power output in Extend mode

IPOE-E202

- IP63 aluminum case, outdoor installation
- Waterproof/dustproof RJ45 Ethernet connector
- 1-port IEEE 802.3at PoE PD
- 2-port IEEE 802.3at PoE PSE
- Complies with IEEE 802.3at Power over Ethernet mid-span
- Max. total PoE budget up to 25 watts
- -40 to 75 degrees C operating temperature
- Extends Cat.5 cable installations to beyond 100 meters

IPOE-E172

- IP63 aluminum case, outdoor installation
- Waterproof/dustproof RJ45 Ethernet connector
- 1-port IEEE 802.3bt/Ultra PoE PD
- 2-port IEEE 802.3bt/at PoE PSE
- Complies with IEEE 802.3at Power over Ethernet mid-span
- Max. total PoE budget up to 60~95 watts
- -40 to 75 degrees C operating temperature
- Extends Cat.5 cable installations to beyond 100 meters

IPOE-E174

- Forwards both Ethernet data and in-line power to 4 remote devices
- 1-port ultra Power over Ethernet PD
- 4-port IEEE 802.3af/at Power over Ethernet/end-span PSE
- Supports PoE output power up to 30.8 watts for each PoE port
- Extends the range of PoE for an additional 100 meters (328ft.)
- -40 to 75 degrees C wide operating temperature

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

EN50155 ITS
Ethernet Network Solution

IGS-5227-4MP2MT

- IP67 aluminum case, outdoor installation
- Waterproof and dustproof M12 Ethernet connector against vibration and shock
- -40 to 75 degrees C wide operating temperature
- 24~48V DC redundant power design
- 144-watt PoE budget/remote PoE power control
- PoE schedule, scheduled rower recycling and PD alive check functions
- ERPS Ring Data Recovery time < 50ms
- IPv4/IPv6 Layer 3 static routing and route summarization

M12 | **Power Boost**

IGS-604HPT-M12

- IP67 aluminum case, outdoor installation
- Waterproof and dustproof M12 Ethernet connector against vibration and shock
- -40 to 75 degrees C wide operating temperature
- 48~56V DC redundant power design
- 144-watt PoE budget/remote PoE power control
- PoE Schedule, Scheduled Power Recycling and PD Alive Check functions
- ERPS Ring Data Recovery time < 50ms
- IPv4/IPv6 Layer 3 static routing and route summarization

M12 | **802.3at PoE**

IGS-604HPT-RJ

- IP67 aluminum case, outdoor installation
- Waterproof/dustproof RJ45 Ethernet connector
- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 2-port 10/100/1000BASE-T
- PD alive check, scheduled power recycling and time-based PoE schedule
- IPv6 and IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
- -40 to 75 degrees C wide operating temperature

TAIWAN EXCELLENCE 2015

RJ45 | **802.3at PoE**

IGS-5226-4P2T

- IP50 metal case
- IEEE 1588 and synchronous Ethernet network timing
- IPv6/IPv4 Layer 3 static routing and route summarization
- 144-watt PoE budget, remote PoE power control
- 48~56V DC redundant power design
- ERPS Ring Data Recovery time < 50ms
- -40 to 75 degrees C wide operating temperature

M12 | **802.3at PoE**

IGS-5227-6MT/IGS-5227-6MT-X

- IP67 aluminum case, outdoor installation
- Waterproof and dustproof M12 Ethernet connector against vibration and shock
- -40 to 75 degrees C wide operating temperature
- 12~48V DC redundant power design
- ERPS Ring Data Recovery time < 50ms
- IPv4/IPv6 Layer 3 static routing and route summarization

M12

IGS-5227-6T

- IP67 aluminum case, outdoor installation
- Waterproof/dustproof RJ45 Ethernet connector
- 6-port 10/100/1000BASE-T
- IPv6 and IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- ERPS ring supported
- Static route supported
- -40 to 75 degrees C wide operating temperature

RJ45

ISW-804PT-M12

- 8-port 10/100BASE-TX with 802.3af PoE
- IP67 metal case
- Robust M12 Ethernet connector
- -40 to 75 degrees C wide operating temperature

TAIWAN EXCELLENCE 2012

M12 | **802.3af PoE**

ISW-800T-M12

- 8-port 10/100BASE-TX
- IP67 metal case
- Robust M12 Ethernet connector
- Waterproof and dustproof
- -40 to 75 degrees C wide operating temperature

M12

Shockproof Design

Layer 2 Industrial Flat-type Ethernet Switches

WGS-5225-8P2SV

- 2.4-inch color LCD touch screen with management functions
- 8-port 10/100/1000BASE-T with 802.3at PoE+
- 2-port 100/1000BASE-X SFP
- 802.1Q VLAN, MSTP and IGMP Snooping
- ERPS ring and IEEE 1588 supported
- Static route supported
- Modbus TCP
- PoE schedule, scheduled power recycling, PD alive check

WGS-5225-8T2SV

- 2.4-inch color LCD touch screen with management functions
- 8-port 10/100/1000BASE-T
- 2-port 100/1000BASE-X SFP
- 802.1Q VLAN, MSTP and IGMP Snooping
- ERPS ring and IEEE 1588 supported
- Static route supported
- Modbus TCP

WGS-5225-8P2S

- 8-port 10/100/1000BASE-T with 802.3at PoE+
- 2-port 100/1000BASE-X SFP
- 802.1Q VLAN, MSTP and IGMP Snooping
- ERPS ring and IEEE 1588 supported
- Static route supported
- Modbus TCP
- PoE schedule, scheduled power recycling, PD alive check

WGS-4215-16P2S

- 16-port 10/100/1000T with 802.3at PoE+
- 2-port 100/1000X SFP
- -40 to 75 degrees C wide operating temperature
- 48~56V DC dual power input
- 200-watt PoE budget, up to 16 PoE port
- PD alive check, scheduled power recycling and time-based PoE schedule
- IPv6 and IPv4 Web; Telnet; SNMPv1, v2c, v3; SSH/SSL management
- QoS, bandwidth control, storm control, Layer 3/4 access control list
- STP/RSTP/MSTP, LACP

WGS-4215-8P2S

- 8-port 10/100/1000T with 802.3at PoE+
- 2-port 100/1000X SFP
- -40 to 75 degrees C wide operating temperature
- 48~56V DC dual power input
- 200-watt PoE budget, up to 8 PoE port
- PD alive check, scheduled power recycling and time-based PoE schedule
- IPv6 and IPv4 Web; Telnet; SNMPv1, v2c, v3; SSH/SSL management
- QoS, bandwidth control, storm control, Layer 3/4 access control list
- STP/RSTP/MSTP, LACP

WGS-4215-8T2S/WGS-4215-8T

- 8-port 10/100/1000BASE-T
- 2-port 100/1000BASE-X SFP(WGS-4215-8T2S)
- -40 to 75 degrees C wide operating temperature
- 24V AC and 12~48V DC redundant power
- Compact size, magnetic wall mount and DIN-rail design
- IPv6 and IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping

WGS-804HPT

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 4-port 10/100/1000BASE-T
- -40 to 75 degrees C wide operating temperature
- 48~56V DC redundant power
- Compact size, magnetic wall mount and DIN-rail design
- IPv6 and IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- LED indicators for PoE usage and status

WGS-804HP

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 4-port 10/100/1000BASE-T
- -10 to 60 degrees C operating temperature
- 48~56V DC redundant power
- Compact size, magnetic wall mount and DIN-rail design
- LED indicators for PoE usage and status

WGS-803

- 8-port 10/100/1000BASE-T
- -10 to 60 degrees C operating temperature
- 24V AC and 12~48V DC redundant power
- Compact size, magnetic wall mount and DIN-rail design

Industrial Flat-type Gigabit Routers

WGR-500-4PV

- 2.4-inch color LCD touch screen with management functions
- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 802.1Q VLAN and IGMP proxy
- PoE schedule, scheduled power recycling, PD alive check
- AP auto-discovery
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Rogue AP detection
- User authentication and MAC ACL
- Customized captive portal
- Profile creation and maintenance
- Online firmware detection and batch upgrade

WGR-500-4P

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 802.1Q VLAN and IGMP proxy
- PoE schedule, scheduled power recycling, PD alive check
- AP auto-discovery
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Rogue AP detection
- User authentication and MAC ACL
- Customized captive portal
- Profile creation and maintenance
- Online firmware detection and batch upgrade

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Renewable Energy PoE Switches

BSP-300

- 2-port 10/100/1000BASE-T with 802.3at PoE+
- 1-port 10/100/1000BASE-T
- 1 24V DC power output terminal block
- -20~60 degrees C operating temperature
- Integrated with solar PV and battery for easy installation

BSP-360

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 1-port 10/100/1000BASE-T
- 1 24V DC power output terminal block
- -20~60 degrees C operating temperature
- Integrated with solar PV, wind, hydroelectric power and battery for easy installation
- Web interface for remote management
- USB backup

Renewable Energy Off-Grid PoE+ Network System Application

| CAM1 | CAM2 | CAM3 | Turbine | Solar PV |

Wireless CPE/AP

BSP-360

Battery

Core Switch

Monitoring Center

- Power Line (DC)
- 2.4GHz/5GHz 802.11n
- 1000BASE-T UTP
- 1000BASE-T UTP with PoE
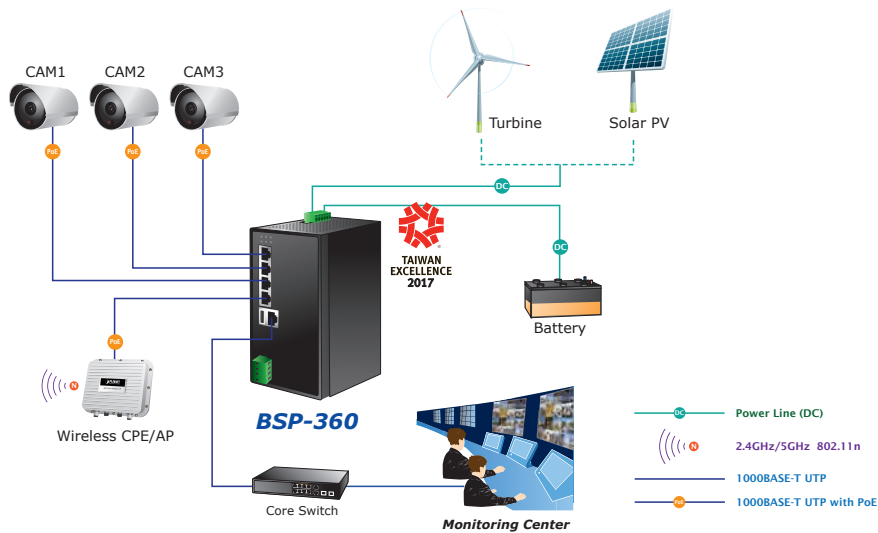
BSP-360 Remote Management

System Management   Battery Status   Statistics   PoE Configuration   PoE Status

Industrial Ethernet Extenders

IVC-2002

- Long reach Ethernet and extended transmission distance:
  – Up to 2.4km (7,874 ft) over coaxial cable
  – Up to 1.4km (4,593 ft) over twisted phone wire
- Up to 95Mbps transmission performance under 200m (656 ft)
- -40 to 75 degrees C wide-ranging operating temperature
- 12~48V DC redundant power
- IP30 metal case

IVC-234GT

- Long reach Ethernet and extended transmission distance:
  – Up to 1.2km (3,937 ft) over coaxial cable
  – Up to 1.2km (3,937 ft) over twisted phone wire
- Up to 200Mbps/100Mbps transmission performance under 200m (656 ft)
- -40 to 75 degrees C wide-ranging operating temperature
- 12~48V DC redundant power
- IP30 metal case
- 4-port 10/100/1000BASE-T Gigabit LAN

LRP-201-KIT

- Re-use the existing coaxial cable, power over coaxial up to 600m
- Power+Data over UTP cable up to 400m
- 1-port BNC with passive PoE PSE
- -20 ~ 70 degrees C wide operating temperature
- Configure free Plug and Play
- LRP-201HT Injector with LRP-201ET Extender
- LRP Injector accepts 802.3bt PoE Input or external power adapter
- LRP Extender supports 802.3af/af/bt PoE output

Industrial PoE Injectors & Splitters

IPOE-162

- 10/100/1000BASE-T
- Distance up to 100m with 30W power output
- -40 to 75 degrees C wide operating temperature
- 12~48V DC redundant power
- IP30 metal case

IPOE-162S

- 10/100/1000BASE-T
- 12/24V DC power output by DIP switch
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IPOE-171S

- 10/100/1000BASE-T
- 12/24V DC power output by DIP switch
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IPOE-171-60W

- 10/100/1000BASE-T
- Distance up to 100m with 60W power output
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IPOE-171-95W

- 10/100/1000BASE-T
- Distance up to 100m with 95W power output
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

Industrial PoE Media Converters

PLANET Industrial PoE Media Converter series combines Ethernet media conversion (from 1000BASE-X to 10/100/1000BASE-T) with 802.3at PoE+ injector delivered in an IP30 rugged strong case. With data and power over Ethernet from one unit, the Industrial PoE Media Converter series can reduce cable deployment and eliminate the need for dedicated electrical outlets on the wall, ceiling or any unreachable place.

IGTP-802T

- 1-port 10/100/1000BASE-T with 802.3at PoE+
- 1-port 1000BASE-SX multi-mode, 220/550 meters
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
- 12~48V DC redundant power

IGTP-802TS

- 1-port 10/100/1000BASE-T with 802.3at PoE+
- 1-port 1000BASE-LX single mode, 10km
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
- 12~48V DC redundant power

IGTP-805AT

- 1-port 10/100/1000BASE-T with 802.3at PoE+
- 1-port 1000BASE-X SFP
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
- 100BASE-FX SFP transceiver compatible
- 12~48V DC redundant power

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Industrial Fiber over Ethernet Media Converters

PLANET Industrial Fiber over Ethernet Media Converter Solution is designed to withstand extreme temperatures to ensure stable operations in harsh industrial conditions. It also provides the dynamic status report and real-time alarm messages that make monitoring and managing the entire industrial networks easy.

PLANET provides the Industrial Media Converters with various fiber-optic interfaces to convert signals via 10G, Gigabit, and Fast Ethernet ports.
- IXT series – allows the signal to convert between fiber-optic interface and 10G port
- IGT series – allows the signal to convert between fiber-optic interface and Gigabit Ethernet port
- IFT series – allows the signal to convert between fiber-optic interface and Fast Ethernet port

Industrial 10GBASE-X Fiber over Ethernet Media Converters

IXT-705AT
- Complies with IEEE 802.3ae 10GBASE-R
- NBASE-T featuring adaptive rate operation
- 100 meters over Cat 6A at 10Gbps
- -40~75 degrees C wide operating temperature
- IP30 metal case
- Low power consumption

Industrial 1000BASE-X Fiber over Ethernet Media Converters

IGT-905A
- 1-port 1000BASE-X SFP fiber optic
- 1-port 10/100/1000BASE-T
- 12~48V DC redundant power
- -30 to 75 degrees C operating temperature
- IP30 metal case
- IPv4 Web management
- 802.1Q VLAN
- Storm control and bandwidth control

IGT-1205AT
- 2-port 100/1000BASE-X SFP fiber optic
- 1-port 10/100/1000BASE-T
- 12~48V DC redundant power
- -30 to 75 degrees C operating temperature
- IP30 metal case

IGT-805AT
- 1-port 100/1000BASE-X SFP fiber optic
- 1-port 10/100/1000BASE-T
- 12~48V DC redundant power
- -30 to 75 degrees C operating temperature
- IP30 metal case

Industrial 100BASE-X Fiber over Ethernet Media Converters

IFT-802T
- 1-port 100BASE-FX SC multi-mode, 2km fiber optic
- 1-port 10/100BASE-TX
- 12~48V DC redundant power
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IFT-802TS15
- 1-port 100BASE-FX SC single mode, 15km fiber optic
- 1-port 10/100BASE-TX
- 12~48V DC redundant power
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IFT-805AT
- 1-port 100BASE-FX SFP fiber optic
- 1-port 10/100BASE-TX
- 12~48V DC redundant power
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

Industrial RS232/RS485/RS422 over Ethernet Media Converters

PLANET Layer 2 Industrial Serial over Ethernet, with model names starting with ICS series, mean the signal converts between RS232/485/422 interface and Ethernet port or fiber-optic port. It also provides the dynamic status report and real-time alarm messages that are easy to monitor and manage the entire industrial networks.

ICS-2100
- 1-port 10/100BASE-TX
- 1 RS232 with DB9 interface
- 1 RS485 or RS422 with terminal block interface
- 24V AC and 12~48V DC redundant power
- -10 to 60 degrees C operating temperature
- IP30 metal case

ICS-2102
- 1-port 100BASE-FX SC, 2km fiber optic
- 1 RS232 with DB9 interface
- 1 RS485 or RS422 with terminal block interface
- 24V AC and 12~48V DC redundant power
- -10 to 60 degrees C operating temperature
- IP30 metal case

ICS-2105A
- 1-port 100BASE-FX SFP fiber optic
- 1 RS232 with DB9 interface
- 1 RS485 or RS422 with terminal block interface
- 24V AC and 12~48V DC redundant power
- -10 to 60 degrees C operating temperature
- IP30 metal case

ICS-2200T
- 2-port 10/100BASE-TX
- 2 RS232/RS422/RS485 with DB9
- 24V AC and 12~48V DC redundant power
- -10 to 60 degrees C operating temperature
- IP30 metal case

ICS-2400T
- 2-port 10/100BASE-TX
- 4 RS232/RS422/RS485 with DB9
- 24V AC and 12~48V DC redundant power
- -10 to 60 degrees C operating temperature
- IP30 metal case

Industrial RS422/RS485 Modbus Gateway

To fulfill the demand of automation and data exchange for industrial 4.0 infrastructures, PLANET IMG serial Modbus Gateway can act as a conversion bridge between the industrial equipment with the Modbus RTU/ASCII Protocol and the administrator workstations that run the Modbus TCP/IP Protocol.

IMG-110T
- One RS422/RS485 port
- Built-in IP-based Web interface and telnet interface for remote management
- RTU Master, RTU Slave, ASCII Master, and ASCII Slave operation modes
- 9-48V DC power input
- -40 to 75 degrees C operating temperature
- IP40 metal case

IMG-120T
- Two RS422/RS485 ports
- Built-in IP-based Web interface and telnet interface for remote management
- RTU Master, RTU Slave, ASCII Master, and ASCII Slave operation modes
- 9-48V DC power input
- -40 to 75 degrees C operating temperature
- IP40 metal case

Industrial EtherCAT Slave IO Module

IECS-1116-DI
- Built-in isolated 16 digital inputs
- 2 x RJ45 bus interface
- LED indicators for the input status
- Removable terminal block connector
- Distance between stations up to 100m (100BASE-TX)
- EtherCAT conformance test tool verified

IECS-1116-DO
- Built-in isolated 16 digital outputs
- 2 x RJ45 bus interface
- LED indicators for the output status
- Removable terminal block connector
- Distance between stations up to 100m (100BASE-TX)
- EtherCAT conformance test tool verified

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Industrial Cellular Gateway

ICG-2420-LTE

- Dual SIM cards for 3G/4G cellular network redundancy
- 3 10/100TX LAN ports and 1 10/100TX WAN port
- 2 DI and 1 DO ports, 2 RS232 and 1 RS485 serial ports
- Supports OpenVPN, IPSec
- -20 to 70 degrees C operating temperature
- IP40 aluminum case, DIN rail and fanless design

ICG-2420G-LTE

- GPS and Google map supported
- Dual SIM cards for 3G/4G cellular network redundancy
- 3 10/100TX LAN ports and 1 10/100TX WAN port
- 2 DI and 1 DO ports, 2 RS232 and 1 RS485 serial ports
- Supports OpenVPN, IPSec
- -20 to 70 degrees C operating temperature
- IP40 aluminum case, DIN rail and fanless design

Vehicle 4G LTE Cellular Wireless Gateway

VCG-1500WG-LTE

- 4 10/100TX LAN ports and 1 10/100TX WAN port
- Industrial power with wide DC voltage power supply design
- One SIM slot and one 4G LTE antenna for network connection
- Supports Wi-Fi 802.11 b/g/n for mobile client connectivity
- GPS antenna allows to detect the location via sat nav system
- Supports GRE, PPTP, IPSec and L2TP
- Supports NAT, DMZ, MAC/Application/IP filter and static routing
- Supports DHCP server/client, PPPoE, static IP and DDNS
- -25 to 65 degrees C operating temperature
- Supports CMS and SNMP for remote management

DIN-rail Power Supplies

PWR-40-24

- 100~240V AC, 50/60Hz, 1.1A input voltage
- Power output 40 watts, 24V, 1.7A
- DIN rail TS-35/7.5 or 15
- -20 ~ 70 degrees C operating temperature

PWR-60-24

- 100~240V AC, 50/60Hz, 1.8A input voltage
- Power output 60 watts, 24V, 2.5A
- DIN rail TS-35/7.5 or 15
- -20 ~ 70 degrees C operating temperature

PWR-75-24

- 100~240V AC, 50/60Hz, 2A input voltage
- Power output 75 watts, 24V, 3.2A
- DIN rail TS-35/7.5 or 15
- -10 ~ 60 degrees C operating temperature

PWR-75-48

- 100~240V AC, 50/60Hz, 1.45A input voltage
- Power output 75 watts, 48V, 1.6A
- DIN rail TS-35/7.5 or 15
- -20 ~ 70 degrees C operating temperature

PWR-120-48

- 100~240V AC, 50/60Hz, 2.25A input voltage
- Power output 120 watts, 48V, 2.5A
- DIN rail TS-35/7.5 or 15
- -20 ~ 70 degrees C operating temperature

PWR-240-48

- 100~240V AC, 50/60Hz, 2.5A input voltage
- Power output 240 watts, 48V, 5A
- DIN rail TS-35/7.5 or 15
- -20 ~ 70 degrees C operating temperature

PWR-480-48

- 100~240V AC, 50/60Hz, 4.8A input voltage
- Power output 480 watts, 48V, 10A
- DIN rail TS-35/7.5 or 15
- -20 ~ 70 degrees C operating temperature

60W PoE++ to 95W PoH PoE

60-95W Ultra PoE Solution

Managed Switches, Hubs, Extenders, Injectors & Splitters

High Power Consuming Applications

IP Surveillance

AP / Router
IP Camera
IP Camera
IP Telephony

IPOE-E174
Ultra PoE Extender

1 Ultra Power PoE in for 4 PoE Devices

POS System

GS-4210-24UP4C
Ultra PoE Switch

Data + Power   Data
                Power   **NVR**

POE-171S
Ultra PoE Splitter

Workable for non-PoE Devices

PoE Lighting

S M T W T F S

PoE Scheduling
Automatically Reboot

PoE
ON OFF ON

PoE PT Camera

Unique Intelligent Functions

Enhanced Power Budget

PLANET PoE Solution provides full power budget to satisfy the increasing needs for power consumption of powered devices, such as wireless APs, IP phones, and IP cameras. Their IP-based, remote Web management interfaces also provide an effective central power management solution to monitor and control per port power feeding of deployed powered devices. PLANET PoE Solution with high power capability helps realize commercial-grade and industrial-grade network applications.

Intuitive PoE Management via Touch LCD

PLANET has developed the world's first PoE Managed Switch series with intuitive color touch LCD interface to allow the network management in real time without logging in to the computer, greatly enhancing the management efficiency. The network system, PoE PDs, and even the cable diagnostics can be easily managed through this cutting-edge user-friendly touch LCD panel built in the PoE Switches. Moreover, the Color Touch LCD PoE Switch supplies 10G data transmission capability, high power PoE from IEEE 802.3af/at 30-watt to 60~95-watt ultra power, intelligent PoE functions, and unique ONVIF support to promote the network performance for SMEs, enterprises, public places and industrial hardened environments.

Uniquely Intelligent PoE Management for Power Saving

In order to support users to conveniently manage the PoE system or end-span devices in the client site, PLANET has developed a unique and user-friendly Intelligent PoE Management function which effectively assists the IT managers in improving the efficiency of management, saving the cost of maintenance, and extending the life of products.

PoE Intelligent Temperature Detection and Control function automatically detects the temperature of the environment and operating product. If the operating product is over normal temperature, this function will be enabled automatically to prevent the product from damage.

The **PoE Power Detection function** improves the working efficiency of IT manager. IT manager can check the total power consumption of all connected devices and power consumption of each connected device. In order to prevent connected devices from damage, this function is automatically enabled.

Extending IP Networking Transmission

For long distance of IP networking transmission, PLANET integrated wireless and wired technologies, such as Ethernet, fiber and coaxial cables, with Power over Ethernet to deploy reliable IP networking fast and easily in any environments.

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Intelligent PoE
Management Functions
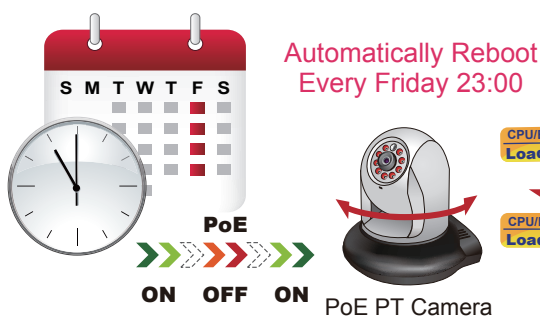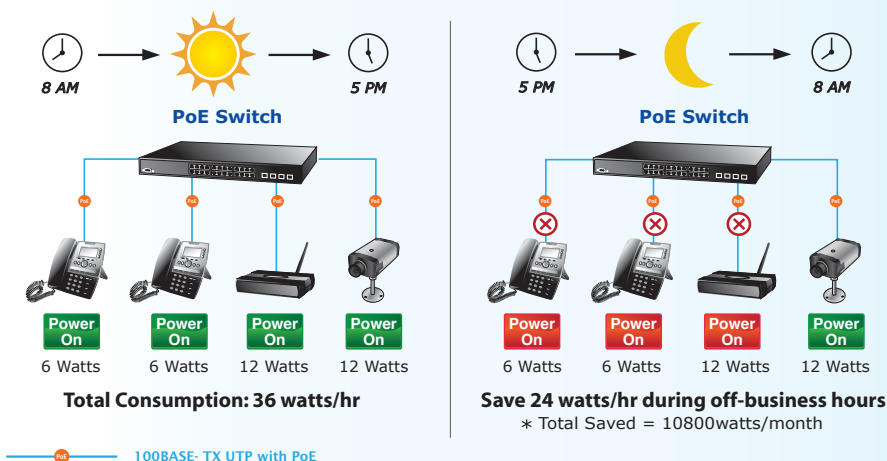
Intelligent Powered Device Alive Check

PLANET PoE switches can be configured to monitor connected PD (Powered Device) status in real time via ping action. It will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing administrator management burden.

PoE PD Alive Check

Step 1	Step 2	Step 3
PoE Camera Ping Request	No Response! Ping Request *Checking alive status for 3 times*	PT PoE Camera PoE ON OFF *Restart PoE device if without response*

PoE Schedule for Energy Saving

The "PoE schedule" function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMBs or enterprises save power and money.

8 AM → ☀ → 5 PM

PoE Switch

Power On	Power On	Power On	Power On
6 Watts	6 Watts	12 Watts	12 Watts

Total Consumption: 36 watts/hr

5 PM → ☾ → 8 AM

PoE Switch

Power On	Power On	Power On	Power On
6 Watts	6 Watts	12 Watts	12 Watts

Save 24 watts/hr during off-business hours
＊Total Saved = 10800watts/month

— 100BASE- TX UTP with PoE

Automatically Reboot Every Friday 23:00

S M T W T F S

PoE

ON   OFF   ON

PoE PT Camera

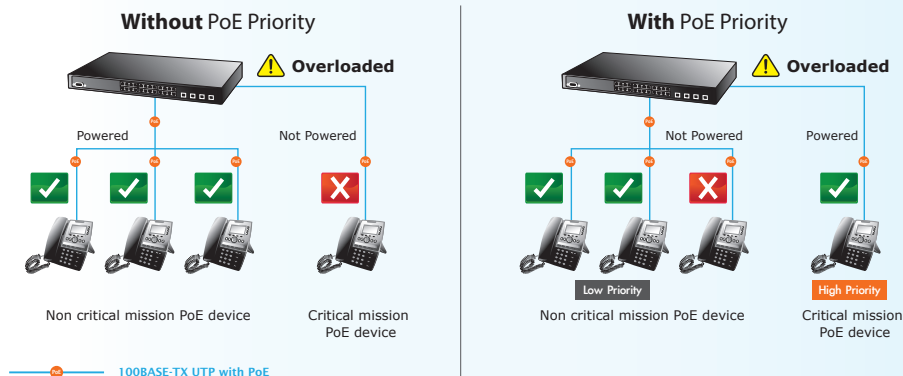CPU/Buffer Load 85%
↓
CPU/Buffer Load 10%

Scheduled Power Recycling

PLANET PoE switches allow each of the connected PoE IP cameras or PoE wireless access points to reboot at a specific time each week. Therefore, it will reduce the chance of IP camera or AP crash resulting from buffer overflow.
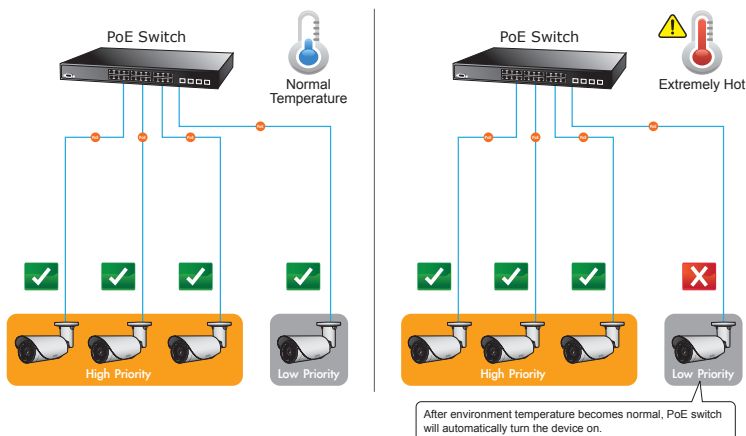
31

PoE Priority for Critical Service

The PoE power budget can be allocated by priorities or classification and sent alert event logs when power usage reaches the defined threshold.

Without PoE Priority

⚠ **Overloaded**

Powered   Not Powered

✓ ✓ ✓   ✗

Non critical mission PoE device

Critical mission PoE device

With PoE Priority

⚠ **Overloaded**

Not Powered   Powered

✓ ✓ ✗   ✓

Low Priority   High Priority

Non critical mission PoE device   Critical mission PoE device

100BASE-TX UTP with PoE

PoE Over Temperature Protection

The automatic Over Temperature Protection helps to prevent power budget overloading while the temperature rises.

PoE Switch   Normal Temperature

✓ ✓ ✓ ✓

High Priority   Low Priority

PoE Switch   Extremely Hot

✓ ✓ ✓ ✗

High Priority   Low Priority

After environment temperature becomes normal, PoE switch will automatically turn the device on.

PoE Usage Monitoring

Via the power usage chart in the web management interface, PLANET PoE switches enable the administrator to monitor the status of the power usage of the connected PDs in real time.

PoE Switch   E-mail Alert

Malfunction

⚠

IP Camera   IP Camera

SMTP/SNMP Trap Event Alert

Though most NVR or camera management software offers SMTP email alert function, PLANET PoE Switches further provide event alert function to help to diagnose the abnormal device owing to whether or not there is a break of the network connection, loss of PoE power or the rebooting response by PD Alive Check process.

Layer 3 802.3at PoE+ Stackable Managed Switch

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security
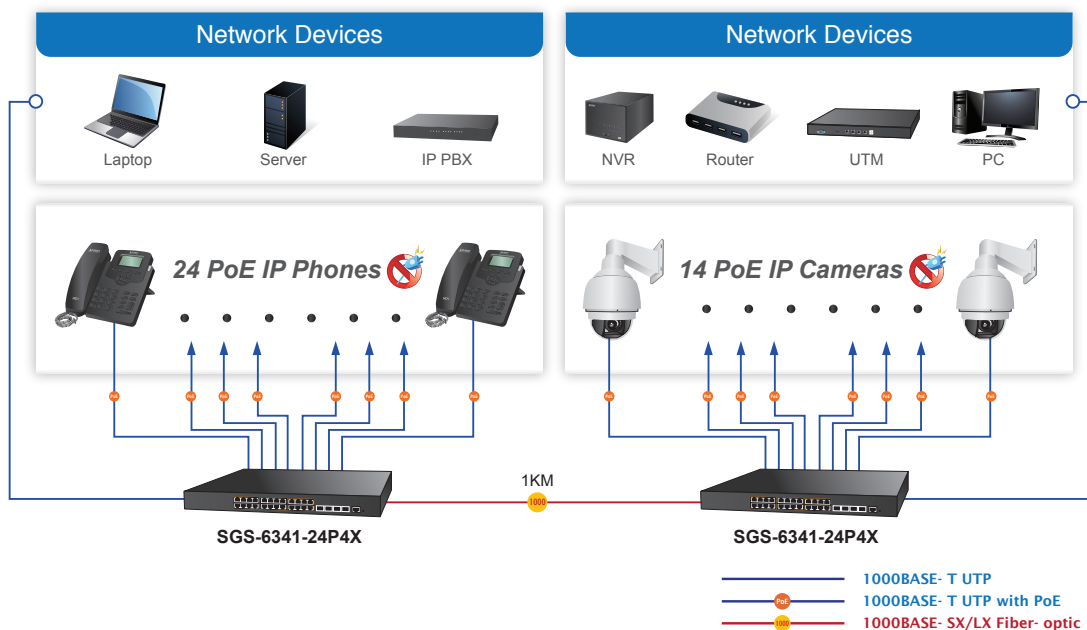
Network Peripheral

Home Automation

SGS-6341-24P4X

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 10GBASE-X SFP+ port x 4
- 370-watt PoE budget

PLANET SGS-6341-24P4X is a Layer 3 PoE Stackable Managed Gigabit Switch that provides high-density performance, Layer 3 static routing, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First). With the four built-in SFP+ slots performing up to 128Gbps switching fabric, the SGS-6341-24P4X can handle extremely large amounts of data in a secure topology linking to an enterprise backbone or high capacity servers. The powerful WRR (Weighted Round Robin) and Network Security features make the SGS-6341-24P4X perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications. The SGS-6341-24P4X has 24 IEEE 802.3at PoE+ ports and PoE budget up to 370 watts for catering to medium to large scale of VoIP or IP Surveillance networks at a lower total cost.

- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE
- Supports PoE power up to 30 watts for each PoE port
- Remote PoE Power management and monitoring
- IP routing protocol: IPv4/IPv6 Layer 3 Static Routing, RIP and OSPF
- Single IP address management, supporting up to 24 units stacked together
- IEEE 802.1Q VLAN, Private VLAN, Q-in-Q and Voice VLAN
- Layer 2, 3 and 4 Access Control List
- Quality of Service (QoS)
- IEEE 802.1D/1w/1s Spanning Tree Protocol
- IGMP Snooping v1, v2 and v3, and querier mode
- Management interface – console; telnet; IPv6 and IPv4 Web; SNMP v1, v2c and v3; SSL and SSH

Network Devices

Laptop   Server   IP PBX

Network Devices

NVR   Router   UTM   PC

24 PoE IP Phones

14 PoE IP Cameras

SGS-6341-24P4X   1KM   SGS-6341-24P4X

— 1000BASE- T UTP
— 1000BASE- T UTP with PoE
— 1000BASE- SX/LX Fiber- optic

33

Touch LCD 10G Layer 3 802.3at/bt PoE Managed Gigabit Switches

Intuitive LCD for Efficient Management

PLANET GS-5220 Smart LCD Layer 3 802.3at/bt PoE Managed Gigabit Switches provide an intuitive touch panel on their front panels that facilitate the Ethernet management and PoE PD management.

- IP address, VLAN and QoS configuration
- PoE management and status
- Port management and status/SFP information
- Troubleshooting: cable diagnostic and remote IP ping
- Maintenance: reboot, factory default and save configuration

The GS-5220 LCD PoE switch models featuring PLANET intelligent PoE management to improve the availability of critical business applications have an awesome feature -- ONVIF Support -- which is specifically designed for co-operating with Video IP Surveillances. From the GUI, you just need one click to search and show all of the ONVIF devices via network application, thus enabling to pinpoint the location of the particular surveillance device for easier inspection and planning.

GS-5220-24UP(L)4XV(R)

- 10/100/1000BASE-T with 802.3bt Utra PoE port x 24
- 1G/10G SFP+ port x 4
- 400-/600-watt PoE budget
- Up to 75 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

75W

GS-5220-16UP2XV(R)

- 10/100/1000BASE-T with 802.3bt Utra PoE port x 16
- 1G/10G SFP+ port x 2
- 400-watt PoE budget
- Up to 75 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

60W

GS-5220-24P(L)4XV(R)

- 10/100/1000BASE-T with 802.3at PoE port x 24
- 1G/10G SFP+ port x 4
- 400-/600-watt PoE budget
- Up to 36 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-16P2XV(R)

- 10/100/1000BASE-T with 802.3at PoE+ port x 16
- 1G/10G SFP+ port x 2
- 220-watt PoE budget
- Up to 36 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

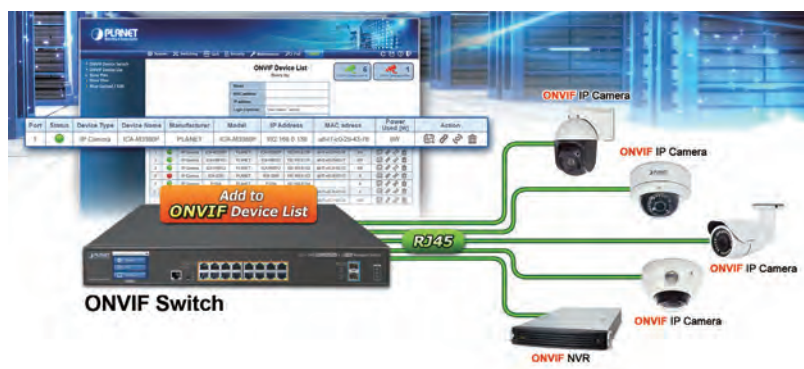# 10G L3 802.3bt Ultra PoE Managed Gigabit Switches

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

GS-5220-24UP(L)4X(R)

- 10/100/1000BASE-T with 802.3bt Ultra PoE port x 24
- 1000/10GBASE-X SFP port x 4
- IPv6 and IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP Snooping
- Up to 60 watts of PoE power on 4-pair UTP
- 600-watt PoE budget
- Smart fan design for silent operation
- 19-inch, 1U rack-mountable installation

GS-5220-16UP4S2X(R)

- 10/100/1000BASE-T with 802.3bt Ultra PoE port x 16
- 1000/10GBASE-X SFP port x 2
- IPv6 and IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP Snooping
- Up to 60 watts of PoE power on 4-pair UTP
- 400-watt PoE budget
- Smart fan design for silent operation
- 19-inch, 1U rack-mountable installation

GS-5220-8UP2T2X

- 10/100/1000BASE-T with 802.3bt Ultra PoE port x 8
- 10/100/1000BASE-T port x 2
- 1G/10G SFP+ port x 2
- 240-watt PoE budget
- Up to 75 watts per PoE port
- 13-inch desktop size

Amazing Ultra PoE Managed Switches with Convenient and Smart Detection Feature

PLANET GS-5220 Ultra PoE Managed Switch series featuring PLANET intelligent PoE management to improve the availability of critical business applications is equipped with multiple 10/100/1000BASE-T ports including 75-watt Ultra PoE and additional 10Gigabit SFP+ ports. They have a total power budget of up to 400/600 watts for different kinds of PoE applications.

An awesome feature -- ONVIF Support – is included in the GS-5220 series for interoperating with video IP surveillances. From the GUI, you just need one click to search and show all of the ONVIF devices via network application, allowing you to remotely plan or inspect a production process at a manufacturing plant.

- Supports PoE Power up to 75 watts for each PoE port
- PoE schedule, scheduled power recycling, PD alive check
- Supports ONVIF detection
- IPv4/IPv6 Layer 3 static routing and route summarization
- IEEE 802.1Q VLAN, Q-in-Q, Protocol-based and MAC-based VLANs
- 100~240V AC for switch system and PoE; 36~60V DC for switch system

10G L3 802.3at PoE+ Managed Gigabit Switches

IPv6 Routing and 10G Ethernet Switch Solutions with PoE Plus for SMBs

PLANET GS-5220 Layer 3 Managed PoE Switch series supports both IPv4 and IPv6 protocols, and hardware-based Layer 3 static routing capability. They comply with IEEE 802.3at Power over Ethernet Plus (PoE+), equipped with 8 to 48 10/100/1000BASE-T Gigabit Ethernet ports and 2 or 4 10G SFP+ uplink slots. All their Gigabit Ethernet ports when integrated with an 802.3at PoE+ injector can be in full operation.

Extended 10G Network Infrastructure Solution

With the 2/4 built-in SFP+ slots, the GS-5220 series performs up to 176Gbps non-blocking switch fabric to handle extremely large amounts of data. It greatly helps SMBs to build 10Gbps Ethernet network, fulfilling the need of backbone connection, heavy transmission of video streaming services, cloud services and NAS applications at an affordable price.

Multigigabit 2.5G Switch Solution

The MGS-5220-8P2X is PLANET's first Multigigabit Layer 3 Managed Switch designed in compact size. Offering 8-port PoE 2.5GBASE-T and 2-port dual speed 10G SFP+, it breaks the bandwidth limitation of connecting the wireless network with the wired network. Featuring L2+ routing and PLANET Intelligent PoE functions, it provides a highly-secure, environment-friendly network management and accelerates the deployment of wireless network infrastructure for smart cities.

GS-5220-24P(L)4X(R)

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 1G/10G SFP+ port x 4
- 400-watt PoE budget
- Up to 36 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-48P(L)4X(R)

- 10/100/1000BASE-T with 802.3at PoE+ port x 48
- 1G/10G SFP+ port x 4
- 600-watt PoE budget
- Up to 36 watts per PoE port
- R model supports 100~240V AC/48~60V DC redundant power

GS-5220-8P2T2X

- 10/100/1000BASE-T with 802.3at PoE+ port x 8
- 1G/10/100/1000BASE-T port x 2
- 10G SFP+ port x 2
- 240-watt PoE budget
- Up to 36 watts per PoE port
- 13-inch desktop size

MGS-5220-8P2X

- 100/1000/2500BASE-T with 802.3at PoE+ port x 8
- 1G/10G SFP+ port x 2
- 240-watt PoE budget
- Up to 36 watts per PoE port
- 13-inch desktop size

TAIWAN EXCELLENCE 2018

Multigigabit 2.5G

L2+ 802.3at PoE+ Managed Gigabit Switches

To meet the PoE network applications requiring higher power supply with Gigabit speed transmission, PLANET L2+ 802.3at PoE+ Managed Switches provide user-friendly but advanced IPv6 and IPv4 management interfaces to bring out efficiently centralized High Power PoE management. It offers IPv4 and IPv6 VLAN routing feature which allows to crossover different VLANs and different IP addresses for the purpose of having a highly-secure, flexible management and simpler networking applications.

As an advanced PoE switch designed for non-stop surveillance or wireless networks, the L2+ Managed PoE switches feature intelligent PoE functions such as PD alive check, scheduled power recycling and over-temperature protection to improve the availability of critical business applications. Time-based PoE schedule can be used to control PoE power feeding during specified time intervals to help companies and campuses to save power and money.

- Complies with IEEE 802.3at/af Power over Ethernet end-span PSE
- Supports PoE Power up to 30.8 watts for each PoE port
- Remote PoE power management and monitoring
- Supports PD alive check, PoE schedule, scheduled power recycling and over-temperature protection
- IPv4 and IPv6 Layer 3 static routing
- IEEE 802.1Q VLAN, Private VLAN, Q-in-Q and Voice VLAN
- Layer 2, 3 and 4 Access Control List
- Quality of Service (QoS)
- IEEE 802.1D/1w/1s Spanning Tree Protocol
- IGMP snooping v1, v2 and v3, and querier mode
- Management interface – console, telnet
- IPv6 and IPv4 Web; SNMP v1, v2c and v3 SSL and SSH
- DHCP snooping, ARP inspection and IP Source Guard
- DHCP Relay and DHCP Option 82

WGSD-10020HP

- 10/100/1000BASE-T with IEEE 802.3at PoE+ port x 8
- 100/1000BASE-X port x 2
- 150-watt PoE budget
- 13-inch desktop size, 1U rack-mountable

GS-5220-8P2T2S

- 10/100/1000BASE-T with 802.3at PoE+ port x 8
- 10/100/1000BASE-T port x 2
- 100/1000BASE-X SFP port x 2
- 240-watt PoE budget
- 13-inch desktop size, 1U rack-mountable
- Smart fan design for silent operation

WGSW-20160HP

- 10/100/1000BASE-T with 802.3at PoE+ port x 16
- 10/100/1000BASE-T port x 4
- 100/1000BASE-X SFP port x 4
- 230-watt PoE budget

WGSW-24040HP/WGSW-24040HP4

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 100/1000BASE-X SFP port x 4
- 220/440-watt PoE budget

SGS-5220-24P2X

- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 100/1000BASE-X SFP port x 4
- 10G SFP+ uplink port x 2
- 10G SFP+ stacked port x 2
- 440-watt PoE budget

Stackable

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
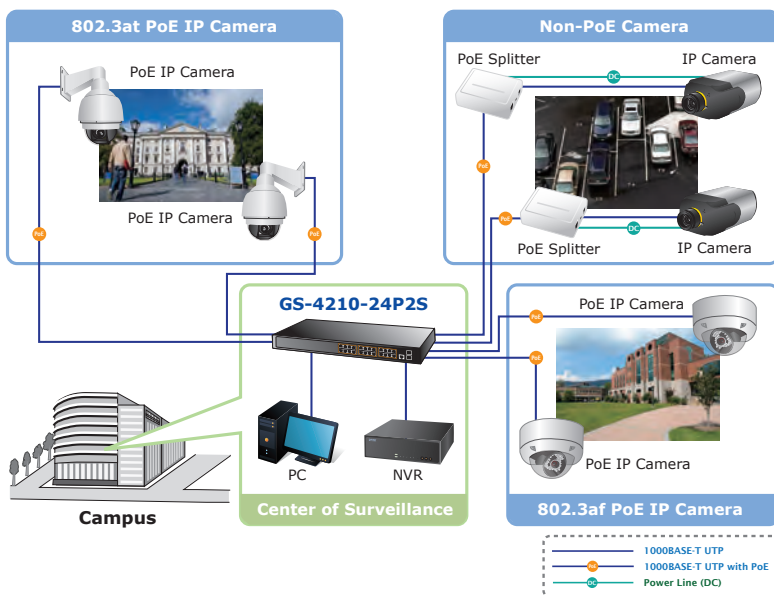Network Security
Network Peripheral
Home Automation

L2/L4 802.3at/bt PoE Managed Gigabit Switches

The L2/L4 802.3at/bt PoE Managed Gigabit Switches allow users to flexibly connect standard and high powered devices simultaneously. To facilitate power management, the Switches come with powerful PoE management features such as over temperature protection, usage threshold alert and auto power allocation to prevent power budget overloading. The PoE power budget can be allocated by priorities or classification and send alert event logs when power usage reaches the defined threshold.

- Complies with IEEE 802.3at/bt Power over Ethernet end-span PSE
- Supports PoE power up to 30.8/60 watts for each PoE port
- Remote PoE power management and monitoring
- Supports PD alive check, scheduled power recycling and time-based PoE schedule and over temperature protection
- IEEE 802.1Q VLAN, Private VLAN and Q-in-Q
- Layer 3 and 4 Access Control List
- Quality of Service (QoS)
- IEEE 802.1D/1w Spanning Tree Protocol
- IGMP snooping v1 and v2, MLD snooping
- Management interface – console ; Telnet Web; SNMP v1, v2c and v3; SSL and SSH

802.3at PoE IP Camera
PoE IP Camera
PoE IP Camera

Non-PoE Camera
PoE Splitter   IP Camera
PoE Splitter   IP Camera

GS-4210-24P2S

PC   NVR

Center of Surveillance

PoE IP Camera
PoE IP Camera

802.3af PoE IP Camera

1000BASE-T UTP
1000BASE-T UTP with PoE
Power Line (DC)

Campus

GS-4210-8P2S
- 10/100/1000BASE-T with 802.3at PoE+ port x 8/16
- 100/1000BASE-X SFP port x 2
- 110-watt PoE budget
- 13-inch desktop size, 1U rack-mountable
- Smart fan design for silent operation

GS-4210-8P2T2S
- 10/100/1000BASE-T with 802.3at PoE+ port x 8
- 10/100/1000BASE-T port x 2
- 100/1000BASE-X SFP port x 2
- 240-watt PoE budget
- 13-inch desktop size, 1U rack-mountable
- Smart fan design for silent operation

GS-4210-16P4C/GS-4210-16P2S
- 10/100/1000BASE-T with 802.3at PoE+ port x 16
- 10/100/1000BASE-T port x 4
- 100/1000BASE-X SFP port x 2/4
- 220-watt PoE budget

GS-4210-24P2S
- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 100/1000BASE-X SFP port x 2
- 300-watt PoE budget

GS-4210-24P4C/GS-4210-24PL4C
- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 10/100/1000BASE-T port x 4
- 100/1000BASE-X SFP port x 4
- 220/440-watt PoE budget
- Smart fan design for silent operation

GS-4210-48P4S
- 10/100/1000BASE-T with 802.3at PoE+ port x 48
- 100/1000BASE-X SFP port x 4
- 440-watt PoE budget
- Smart fan design for silent operation

GS-4210-16UP4C/GS-4210-24UP4C
- 10/100/1000BASE-T with ultra PoE port x 16/24
- 10/100/1000BASE-T port x 4
- 100/1000BASE-X SFP port x 4
- Up to 60 watts of PoE power on 4-pair UTP
- 400/600-watt PoE budget

60W

Industrial Flat-type PoE+ Switches

Easily-deployed and Expanded PoE Network

Designed to be installed in a wall enclosure or simply mounted at any convenient location on a wall, PLANET Industrial Flat-type PoE+ Switches are an ideal solution to meeting the demand of sufficient PoE power for the network applications such as building/home automation network, Internet of things (IoT), and wired and wireless IP surveillance.

Innovative Wall-mount Installation

The Industrial Flat-type PoE+ Switches adopt "Front Access" design, making the installing, cable wiring, LED monitoring and maintenance of the Industrial Flat-type PoE+ Switches placed in an enclosure easier for technicians to manage. Its magnetic wall mounting or DIN rail installation enables its efficient use of enclosure space, thereby making its usability more flexible.

WGS-5225-8P2SV

- 2.4-inch color LCD touch screen with management functions
- 8-port 10/100/1000BASE-T with 802.3at PoE+
- 2-port 100/1000BASE-X SFP
- ERPS Ring Data Recovery time < 20ms
- IPv4/IPv6 Layer 3 static routing
- Supports Modbus TCP/IP Protocol
- 48~56V DC dual power design
- -20~70 degrees C operating temperature
- 240-watt PoE budget

WGS-5225-8P2S

- 8-port 10/100/1000BASE-T with 802.3at PoE+
- 2-port 100/1000BASE-X SFP
- ERPS Ring Data Recovery time < 20ms
- IPv4/IPv6 Layer 3 static routing
- Supports Modbus TCP/IP Protocol
- 48~56V DC dual power design
- -40~75 degrees C wide operating temperature
- 240-watt PoE budget

WGS-4215-16P2S

- 16-port 10/100/1000T with 802.3at PoE+
- 2-port 100/1000X SFP
- -40 to 75 degrees C wide operating temperature
- 48~56V DC dual power input
- 200-watt PoE budget, up to 16 PoE port
- PD alive check, scheduled power recycling and time-based PoE schedule
- IPv6 and IPv4 Web; Telnet; SNMPv1, v2c, v3; SSH/SSL management
- QoS, bandwidth control, storm control, Layer 3/4 access control list
- STP/RSTP/MSTP, LACP

WGS-804HP

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 4-port 10/100/1000BASE-T
- -10 to 60 degrees C operating temperature
- 48~56V DC redundant power
- LED indicators for PoE usage and status
- 120-watt PoE budget

WGS-804HPT

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 4-port 10/100/1000BASE-T
- -40 to 75 degrees C wide operating temperature
- 48~56V DC redundant power
- IPv6 and IPv4 Web, Telnet and SNMP management
- 802.1Q VLAN, MSTP and IGMP snooping
- LED indicators for PoE usage and status
- 144-watt PoE budget

WGS-4215-8P2S

- 8-port 10/100/1000T with 802.3at PoE+
- 2-port 100/1000X SFP
- -40 to 75 degrees C wide operating temperature
- 48~56V DC dual power input
- 200-watt PoE budget
- IPv6 and IPv4 Web; Telnet; SNMPv1, v2c, v3; SSH/SSL management
- QoS, bandwidth control, storm control, Layer 3/4 access control list
- STP/RSTP/MSTP, LACP

Industrial Flat-type Gigabit PoE+ Routers

WGR-500-4PV

- 2.4-inch color LCD touch screen with management functions
- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 802.1Q VLAN and IGMP proxy
- PoE schedule, scheduled power recycling, PD alive check
- AP auto-discovery
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Rogue AP detection
- User authentication and MAC ACL
- Customized captive portal
- Profile creation and maintenance
- Online firmware detection and batch upgrade

WGR-500-4P

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 802.1Q VLAN and IGMP proxy
- PoE schedule, scheduled power recycling, PD alive check
- AP auto-discovery
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Rogue AP detection
- User authentication and MAC ACL
- Customized captive portal
- Profile creation and maintenance
- Online firmware detection and batch upgrade

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

Web Smart 802.3at PoE+ Switches

PLANET Web Smart 802.3af/at PoE switches provide a cost-effectiveness advantage to local area network and are widely accepted in SMB office network. They provide intelligent Layer 2 data packet switching and management functions, friendly web user interface, and stable operation. They also comply with Power over Ethernet (PoE) at an affordable price. The Web Smart PoE switches feature 4-port PoE to 24-port PoE choices to meet various customer requirements. They offer a rack-mountable, safe and reliable power solution for SMBs deploying PoE VoIP systems and PoE wireless networks, or requiring enhanced data security and network traffic management.

Unmanaged LCD PoE+ Switches

PLANET LCD PoE Switches are an ideal Plug and Watch Power over Ethernet solution which provides quick installation, real-time PoE work status monitoring and immediate troubleshooting through its unique LCD display to improve work efficiency and quality without any PC or software required.

The LCD monitors of the LCD PoE Switches clearly show the PoE loading of each port, total PoE power usage and system status, such as overload, low voltage, over voltage and high temperature. With its brand-new LCD monitor, user is able to obtain detailed information about real-time PoE working condition of the LCD PoE Switches directly. Also the Power Budget Control function helps to prevent power budget overloading.

LCD Monitor Status

FGSD-1008HPS

- 10/100BASE-TX with 802.3at PoE+ port x 8
- 10/100/1000BASE-T port x 2
- 1000BASE-X SFP port x 2
- 125-watt PoE budget
- 13-inch desktop size, 1U rack-mountable

FGSW-1816HPS

- 10/100BASE-TX with 802.3at PoE+ port x 16
- 10/100/1000BASE-T port x 2
- 1000BASE-X SFP port x 2
- 220-watt PoE budget
- 19-inch, 1U rack-mountable

FGSW-2624HPS/FGSW-2624HPS4

- 10/100BASE-TX with 802.3at PoE+ port x 24
- 10/100/1000BASE-T port x 2
- 1000BASE-X SFP port x 2
- 220-/420-watt PoE budget
- 19-inch, 1U rack-mountable

GSD-1222VHP

- 10/100/1000BASE-T with 802.3 at PoE+ port x 8
- 10/100/1000BASE-T uplink port x 2
- 1000BASE-X SFP port x 2
- Hardware DIP Switch, including Standard, VLAN and Extend mode.
- 120-watt PoE budget
- LCD with real-time PoE port status display, and power and alarm alerts
- VLAN Isolation
- 250m distance w/30W power output in Extend Mode
- 12-inch, 1U, rack-mountable

GSW-1820VHP/GSW-2620VHP

- 10/100/1000BASE-T with 802.3 at PoE+ port x 16/24
- 1000BASE-X SFP uplink port x 2
- Hardware DIP Switch, including Standard, VLAN and Extend mode.
- 300-watt PoE budget
- LCD with real-time PoE port status display, and power and alarm alerts
- VLAN Isolation
- 250m distance with 30W power output in Extend Mode

GSW-1222VUP

- Up to 60 watts of PoE power on 4-pair UTP
- 10/100/1000BASE-T with 8-port ultra PoE
- 380-watt PoE budget
- LCD with real-time PoE port status display, and power and alarm alerts
- 2-port Gigabit TP and 2-port Gigabit SFP for uplink
- Plug and Play design

FGSD-1022VHP

- 10/100BASE-TX with 802.3 at PoE+ port x 8
- 10/100/1000BASE-T uplink port x 2
- Hardware DIP Switch, including Standard, VLAN and Extend mode.
- 120-watt PoE budget
- LCD with real-time PoE port status display, and power and alarm alerts
- VLAN Isolation
- 250m distance with 30W power output in Extend Mode
- 12-inch, 1U, rack-mountable

FGSW-1822VHP/FGSW-2622VHP

- 10/100BASE-TX with 802.3at PoE+ port x 16/24
- 10/100/1000BASE-T port x 2
- 1000BASE-X SFP uplink port x 2
- 300-watt PoE budget
- LCD with real-time PoE port status display, and power and alarm alerts
- 250m distance with 30W power output in Extend Mode

Unmanaged PoE+ Switches

Gigabit

GSD-604HP
- 10/100/1000BASE-T with 802.3at PoE+ port x 4
- 10/100/1000BASE-T port x 2
- 55-watt PoE budget
- Port-based VLAN via DIP selection
- Compact size, wall-mountable

GSD-804P
- 10/100/1000BASE-T with 802.3at PoE port x 4
- 10/100/1000BASE-T port x 4
- 55-watt PoE budget
- 10-inch, 1U rack-mountable
- Hardware-based DIP switch for Standard, VLAN and Extend mode selection

GSD-908HP
- 10/100/1000BASE-T with 802.3at PoE+ port x 8
- 10/100/1000BASE-T port x 1
- 100-watt PoE budget
- Compact size, wall-mount and magnetic wall mountable

GSD-1008HP
- 10/100/1000BASE-T with 802.3at PoE+ port x 8
- 10/100/1000BASE-T port x 2
- Hardware-based DIP switch for Standard, VLAN and Extend mode selection
- 120-watt PoE budget
- 9-inch, 1U rack-mountable

GSW-1600HP
- 10/100/1000BASE-T with 802.3at PoE+ port x 16
- 220-watt PoE Power budget
- 19-inch, 1U rack-mountable

GSW-2620HP
- 10/100/1000BASE-T with 802.3at PoE+ port x 24
- 1000BASE-X SFP port x 2
- 220-watt PoE Power budget
- 19-inch, 1U rack-mountable

FGSD-1011HP
- 10/100BASE-TX with 802.3at PoE+ port x 8
- 10/100/1000BASE-T port x 1, 100/1000X SFP port x 1
- Hardware-based DIP switch for Standard, VLAN and Extend mode selection
- 120-watt PoE budget
- 9-inch, 1U rack-mountable

Gigabit Uplink

Fast Ethernet

FSD-504HP
- 10/100BASE-TX with 802.3at PoE+ port x 4
- 10/100BASE-TX port x 1
- 60-watt PoE budget
- Hardware-based DIP switch for Standard and Extend mode selection
- Compact size, wall-mountable

FSD-604HP
- 10/100BASE-TX with 802.3at PoE+ port x 4
- 10/100BASE-TX port x 2
- Extend power + data and port-based VLAN via DIP selection
- 60-watt PoE budget
- Internal AC, fanless design

FSD-1008HP
- 10/100BASE-TX with 802.3at PoE+ port 8
- 10/100BASE-TX port x 2
- Hardware-based DIP switch for Standard, VLAN and Extend mode selection
- 120-watt PoE budget
- 9-inch, 1U rack-mountable

FNSW-1600P
- 10/100BASE-TX with 802.3at PoE port x 16
- 125-watt PoE budget
- 19-inch, 1U rack-mountable

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Multi-port PoE Injector Hubs

Quick and Easy PoE Network Deployment

PLANET PoE Injector Hubs provide 4-/12-/24-port IEEE 802.3at/bt Power over Ethernet injector functions and comply with IEEE 802.3, IEEE 802.3u, IEEE 802.3at and IEEE 802.3bt standards. This series supports PoE power for any remote IEEE 802.3at/bt powered device (PD) like wireless access point, IP phone, and IP camera.

Easy Cabling Installation

The PoE Injector Hubs are installed between a regular Ethernet Switch and PDs; they inject power to the PDs without affecting the data transmission performance. They offer a cost effective and quick solution to upgrading network system to IEEE 802.3at/bt Power over Ethernet system without replacing the existing Ethernet Switch.

- Complies with IEEE 802.3at/bt Power over Ethernet mid-span PSE
- PoE power up to 30/60-watt for each PoE port
- Remote power feeding up to 100m
- Full power support for each PoE port

- Automatically detects the powered device (PD)
- Indication of LED indicator power input
- 100~240VAC, 50/60Hz, universal power supply

60-watt Ultra PoE Injector Hubs

UPOE-800G

- 10/100/1000BASE-T "Data" input port x 8
- 10/100/1000BASE-T "Data + Power" output port x 8
- 400-watt PoE budget
- PoE Power up to 60 watts for each PoE port
- Web management interface
- SNMP Trap and PoE schedule
- 19-inch, 1U rack-mountable

UPOE-1600G

- 10/100/1000BASE-T "Data" input port x 16
- 10/100/1000BASE-T "Data + Power" output port x 16
- 600-watt PoE budget
- PoE Power up to 60 watts for each PoE port
- Web management interface
- SNMP Trap and PoE schedule
- 19-inch, 1U rack-mountable

UPOE-2400G

- 10/100/1000BASE-T "Data" input port x 24
- 10/100/1000BASE-T "Data + Power" output port x 24
- 800-watt PoE budget
- PoE Power up to 60 watts for each PoE port
- Web management interface
- SNMP Trap and PoE schedule
- 19-inch, 1U rack-mountable

802.3at PoE+ Injector Hubs

HPOE-460

- 10/100/1000BASE-T "Data" input port x 4
- 10/100/1000BASE-T "Data + Power" output port x 4
- 120-watt PoE budget
- PoE Power up to 30.8 watts for each PoE port
- Compact size, wall-mountable

POE-1200G

- 10/100/1000BASE-T "Data" input port x 12
- 10/100/1000BASE-T "Data + Power" output port x 12
- 220-watt PoE budget
- PoE Power up to 30.8 watts for each PoE port
- Web management interface
- SNMP Trap and PoE schedule
- 19-inch, 1U rack-mountable

POE-2400G

- 10/100/1000BASE-T "Data" input port x 24
- 10/100/1000BASE-T "Data + Power" output port x 24
- 440 watt PoE budget
- PoE Power up to 30.8 watts for each PoE port
- Web management interface
- SNMP Trap and PoE schedule
- 19-inch, 1U rack-mountable

HPOE-1200G

- 10/100/1000BASE-T "Data" input port x 12
- 10/100/1000BASE-T "Data + Power" output port x 12
- 360-watt PoE budget
- PoE Power up to 30.8 watts for each PoE port
- Web management interface
- SNMP Trap and PoE schedule
- 19-inch, 1U rack-mountable

HPOE-2400G

- 10/100/1000BASE-T "Data" input port x 24
- 10/100/1000BASE-T "Data + Power" output port x 24
- 720-watt PoE budget
- PoE Power up to 30.8 watts for each PoE port
- Web management interface
- SNMP Trap and PoE schedule
- 19-inch, 1U rack-mountable

Single-port PoE Injectors & Splitters

PLANET Single-port PoE Injectors and Splitters are compliant with IEEE 802.3af/at 30-watt PoE and IEEE 802.3bt Ultra PoE standard to help achieve a more flexible network deployment. The PoE injectors insert power into Ethernet cables and allow the cable between the PoE injector and splitter to transfer data and power simultaneously. The PoE splitter is paired with the injector to turn the non-PoE devices into PoE-ready equipment. The maximum distance between the injector and splitter is 100 meters.

802.3bt Ultra PoE Injectors

POE/IPoE Series

- Complies with IEEE 802.3bt Power over Ethernet
- Maximum power up to 95 watts
- Auto-detection of IEEE 802.3bt Ultra PoE PDs from being damaged by incorrect installation

IPOE-171-60W/IPOE-171-95W

- Up to 95 watts of PoE power on 4-pair UTP
- Data and power over one Ethernet cable up to 100 meters
- Backward compatible with IEEE 802.3at/af PD device
- Supports 10/100/1000BASE-T applications
- -40 to 75 degrees C wide operating temperature
- IP30 metal case, DIN-rail and wall-mountable
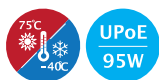
POE-171

- Up to 60 watts of PoE power on 4-pair UTP
- Data and power over one Ethernet cable up to 100 meters
- Backward compatible with IEEE 802.3at/af PD device
- Supports 10/100/1000BASE-T applications

POE-171A-60/POE-171A-95

- Up to 95 watts of PoE power on 4-pair UTP
- Data and power over one Ethernet cable up to 100 meters
- Backward compatible with IEEE 802.3at/af PD device
- Supports 10/100/1000BASE-T applications

POE-172/POE-173

- Up to 60 watts of PoE power on 4-pair UTP
- Data and power over one Ethernet cable up to 100 meters
- Backward compatible with IEEE 802.3at/af PD device
- Supports 10/100/1000BASE-T applications

POE-175-95

- Up to 95 watts of PoE power on 4-pair UTP
- Data and power over one Ethernet cable up to 100 meters
- Backward compatible with IEEE 802.3at/af PD device
- Supports 10/100/1000BASE-T applications

Ultra PoE Splitters

IPOE-171S

- 10/100/1000BASE-T "Data" output port x 1
- 10/100/1000BASE-T "Data + Power" input port x 1
- Up to 50-watt PoE power output
- Supports 12V/19V/24V DC power output by DIP switch
- -40 to 75 degrees C wide operating temperature
- IP30 metal case, DIN-rail and wall-mountable
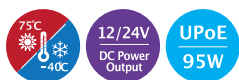
POE-171S

- 10/100/1000BASE-T "Data" output port x 1
- 10/100/1000BASE-T "Data + Power" input port x 1
- Up to 50-watt PoE power output
- Supports 12V/19V/24V DC power output by DIP switch

POE-172S

- 10/100/1000BASE-T "Data" output port x 1
- 10/100/1000BASE-T "Data + Power" input port x 1
- Up to 75-watt PoE power output
- Supports 12V/19V/24V DC power output by DIP switch

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

802.3at PoE+ Injectors & Splitters

POE/IPOE/GTP Series

- Complies with IEEE 802.3af/at Power over Ethernet
- Maximum power up to 30.8 watts
- Auto-detection of PoE+ IEEE 802.3at PDs from being damaged by incorrect installation

GTP-805A

- 10/100/1000BASE-T "Data + Power" output port x 1
- 1000BASE-X "Data" input port x 1
- Mid-span PSE
- Made of metal

POE-161

- 10/100/1000BASE-T "Data" input port x 1
- 10/100/1000BASE-T "Data + Power" output port x 1
- Mid-span PSE
- Made from plastic

POE-161S/POE-162S

- 10/100/1000BASE-T "Data" output port x 1
- 10/100/1000BASE-T "Data + Power" input port x 1
- Made from plastic
- Power output: 5V/12V DC, max. 5A (POE-161S)
- Power output: 12V/24V DC, max. 2A (POE-162S)

POE-163

- 10/100/1000BASE-T "Data" input port x 1
- 10/100/1000BASE-T "Data + Power" output port x 1
- Mid-span PSE
- Plastic compact size, internal 100-240V AC power supply

POE-164

- 10/100BASE-TX "Data" input port x 1
- 10/100BASE-TX "Data + Power" output port x 1
- Mid-span PSE
- Plastic compact size, internal 100-240V AC power supply

POE-165S

- Power input - complies with IEEE 802.3af/at Power over Ethernet
- Power output - passive Power over Ethernet injector
- Supports 12V/19V/24V DC power output by DIP switch
- -40 to 75 degrees C wide operating temperature
- Compact size, wall-mountable

IGTP-805AT/IGTP-802T/ IGTR-802TS

- 100/1000BASE-X single/ multi mode LC (SFP interface)
- 10/100/1000BASE-T with 802.3at PoE+ port x 1
- Link Fault Pass-through (LFP) support
- -40 to 75 degrees C operating temperature
- IP30 metal case, DIN-rail and wall-mountable

IPOE-162

- 10/100/1000BASE-T "Data" input port x 1
- 10/100/1000BASE-T "Data + Power" output port x 1
- -40 to 75 degrees C operating temperature
- IP30 metal case, DIN-rail and wall-mountable

IPOE-162S

- 10/100/1000BASE-T "Data" output port x 1
- 10/100/1000BASE-T "Data + Power" input port x 1
- Power output: 12V/24V DC, max.2A
- -40 to 75 degrees C operating temperature
- IP30 metal case, DIN-rail and wall-mountable

802.3af PoE Injectors

POE/FTP Series

- Complies with IEEE 802.3af Power over Ethernet
- Data and power transmission distance up to 100 meters
- Maximum power up to 15.4 watts
- Auto-detection of PoE IEEE 802.3af equipment and devices from being damaged by incorrect installation
- Desktop size, wall-mountable

FTP-802/802S15

- 10/100BASE-TX "Data + Power" output port x 1
- 100BASE-FX "Data" input port x 1
- End-span PSE
- Made of metal

POE-151

- 10/100BASE-TX "Data" input port x 1
- 10/100BASE-TX "Data + Power" output port x 1
- Mid-span PSE
- Made from plastic

POE-152

- 10/100/1000BASE-T "Data" input port x 1
- 10/100/1000BASE-T "Data + Power" output port x 1
- End-span PSE
- Made from plastic

PoE Extenders

PLANET PoE Extenders are a newly-designed and simple device which extends both the reach of Ethernet data and power over the standard 100m (328 ft.) RJ45 UTP cable to 200m, 300m or longer distance, making the network installations more efficient and cost-effective.

POE/IPOE-E Series

- Extends the range of PoE by an additional 100 meters (328ft.) or more
- Forwards both Ethernet data and PoE power to remote devices
- Multiple units, daisy-chain installation supported
- No external power cable required for installation
- Compact size, wall-mountable
- Plug and Play

60-watt Ultra PoE Extenders

IPOE-E174

- Forwards both Ethernet data and in-line power to 4 remote devices
- 1-port ultra Power over Ethernet PD
- 4-port IEEE 802.3af/at Power over Ethernet/end-span PSE
- Supports PoE output power up to 30.8 watts for each PoE port
- Extends the range of PoE for an additional 100 meters (328ft.)
- -40 to 75 degrees C wide operating temperature
- No external power cable required for installation
- Plug and Play, no software required

POE-E304

- Forwards both Ethernet data and in-line power to 4 remote devices
- 1-port ultra Power over Ethernet PD
- 4-port IEEE 802.3af/at Power over Ethernet/end-span PSE
- Supports PoE output power up to 30.8 watts for each PoE port
- Extends the range of PoE for an additional 100 meters (328ft.)
- No external power cable required for installation
- Plug and Play, no software required

IPOE-E172

- 10/100/1000BASE-T "Data + Power" shielded RJ45 input port x 1
- 10/100/1000BASE-T "Data + Power" shielded RJ45 output port x 2
- Max. total PoE budget up to 60 watts
- -40 to 75 degrees C wide operating temperature
- Extends Cat.5 cable installations to beyond 100 meters

IP63
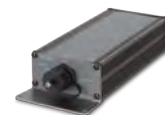
802.3at/af PoE Extenders

POE-E101

- 10/100BASE-TX "Data + Power" output port x 1
- 10/100BASE-TX "Data + Power" input port x 1
- Complies with IEEE 802.3af Power over Ethernet mid-span
- Maximum extended distance up to 300m

POE-E201

- 10/100/1000BASE-T "Data + Power" output port x 1
- 10/100/1000BASE-T "Data + Power" input port x 1
- Complies with IEEE 802.3af/at Power over Ethernet mid-span
- Maximum extended distance up to 500m

30W Gigabit

POE-E202

- 10/100/1000BASE-T "Data + Power" output port x 2
- 10/100/1000BASE-T "Data + Power" input port x 1
- Complies with IEEE 802.3af/at Power over Ethernet mid-span
- Maximum extended distance up to 300m

IPOE-E202

- 10/100/1000BASE-T "Data + Power" shielded RJ45 input port x 1
- 10/100/1000BASE-T "Data + Power" shielded RJ45 output port x 2
- Max. total PoE budget up to 50 watts
- -40 to 75 degrees C wide operating temperature
- Extends Cat.5 cable installations to beyond 100 meters

IP63

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

# Long Reach PoE L2/L4 IPv6 Managed Switches

LRP Series

PLANET Long Reach PoE (LRP) solution is designed to extend IP Ethernet transmission and inject power over an existing coaxial cable for distance up to 1000m (3280ft) into PoE IP camera, PoE wireless AP and any 802.3af/at complied powered device (PD).

The Long Reach PoE solution consists of an LRP switch/injector and LRP extender which can work without any power adapter anywhere on your network infrastructure. It is a perfect solution for sending IP video links and power to remote PoE IP camera installation that is beyond the 100-meter distance limit of Ethernet.

- Re-use the existing coaxial cable that eliminates power cabling with Power over coaxial (PoC)
- Data and Power over coaxial up to 1km
- Up to 36-watt power output per PoC port
- PD alive check, scheduled power recycling and time-based PoE schedule
- IEEE 802.1Q VLAN, Q-in-Q, Private VLAN and GVRP
- IEEE 802.1w RSTP, IEEE 802.1s MSTP and loop protection
- IGMP snooping v2 and v3 and MLD snooping
- QoS, Voice VLAN and bandwidth control
- Layer 2, 3 and 4 Access Control List
- IPv4 and IPv6 Web interface; Telnet; SNMP v1, v2c and v3; SSH and SSL management
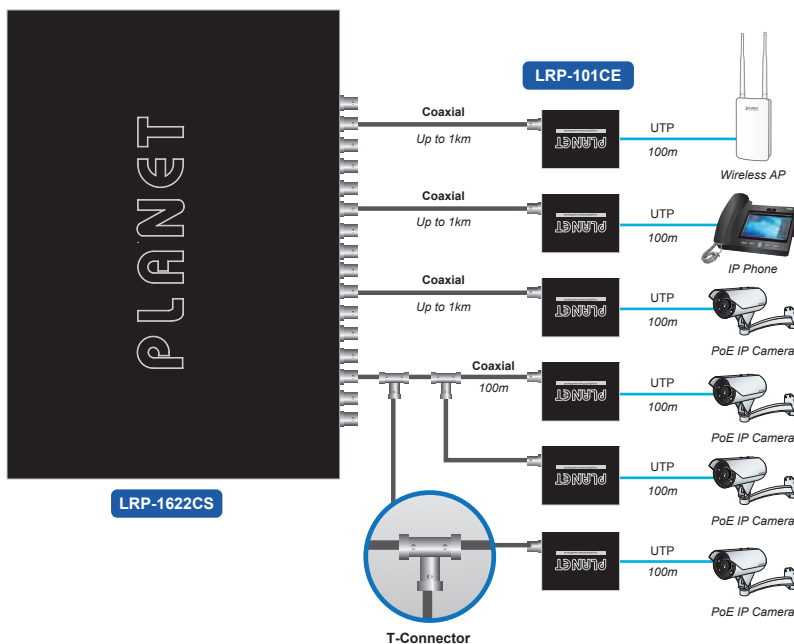
LRP-822CS

- Long Reach PoE over coaxial port x 8
- 100/100/1000BASE-T port x 2
- 100/1000BASE-X SFP port x 2
- 240-watt PoE budget
- Up to 36 watts per PoC port
- Power over coaxial up to 1km

LRP-1622CS

- Long Reach PoE over coaxial port x 16
- 100/100/1000BASE-T port x 2
- 100/1000BASE-X SFP port x 2
- 440-watt PoE budget
- Up to 36 watts per PoC port
- Power over coaxial up to 1km

LRP-422CST

- Long Reach PoE over coaxial port x 4
- 100/100/1000BASE-T port x 2
- 100/1000BASE-X SFP port x 2
- 150-watt PoE budget
- Up to 36 watts per PoC port
- Power over coaxial up to 1km
- -20 to 75 degrees C operating temperature
- IP30 metal case, DIN-rail and wall-mountable

Long Reach PoE Injectors & Extenders

LRP-101 series/LRP-201 series

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

TAIWAN EXCELLENCE 2016

The LRP-101CE/LRP-101UE PoE Extender, which sources power from the LRP switch or LRP injector, is a Single-port, 802.3at High Power over Ethernet Injector providing a maximum of up to 25 watts of power output over Ethernet cable which allows data and power to transmit simultaneously through the cable to PoE PD (Powered Device).

PoE IP Camera

PoE IP Camera

Escalator

Counter

LRP-101CE

LRP-101CE

PoE WiFi AP

PoE IP Camera

PoE IP Camera

Corridor

Parking Lot

LRP-101CE

LRP-101CE   LRP-101CE

LRP-822CS

NVR

Control Center

━━━ 100BASE-TX UTP
━PoE━ 100BASE-TX UTP with PoE
━PoC━ Coaxial Cable with Data + Power
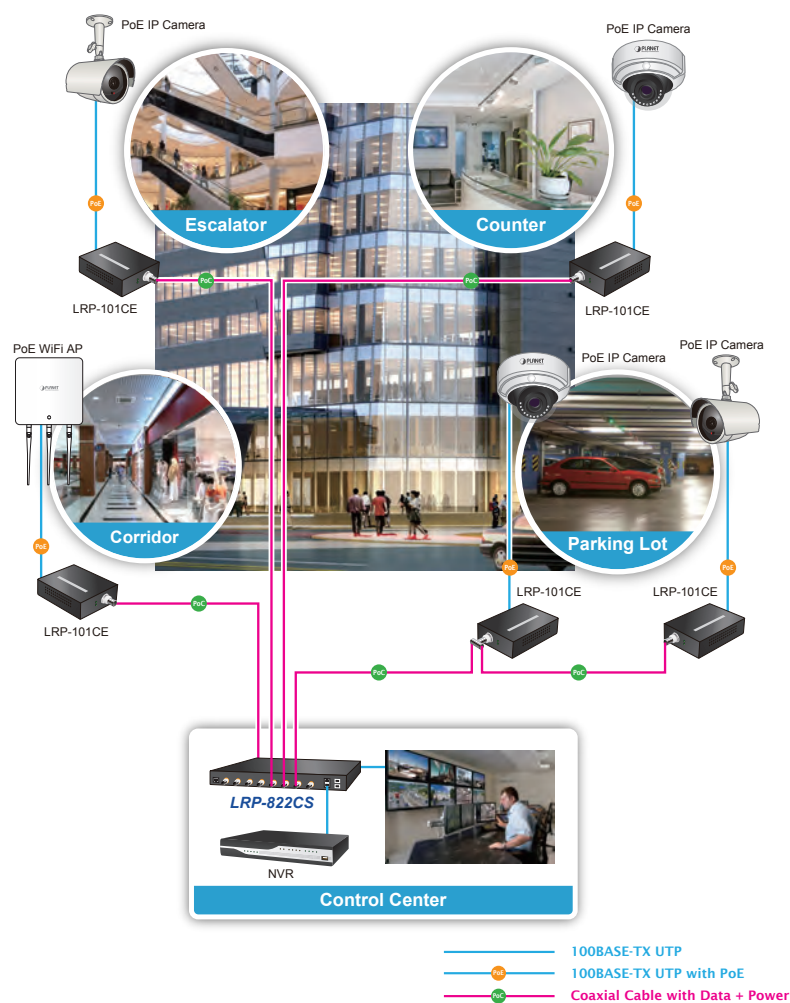
Single Port Injector

LRP-201HT

- 1-port BNC with passive PoE PSE
- 1-port 10/100/1000T RJ45 with 802.3bt Ultra PoE input
- -10 ~ 60 degrees C operating temperature
- Power over coaxial up to 1km
- Dual 48 ~ 56V DC power input

60W   Gigabit

LRP-201ET

- 1-port BNC with passive PoE PD
- 1-port 10/100/1000T RJ45 with 802.3bt Ultra PoE PSE
- -10 ~ 60 degrees C operating temperature

60W   Gigabit

LRP-101CH

- 1-port BNC with passive PoE PSE
- 1-port 10/100TX RJ45 with 802.3at PoE+ Input
- -20 ~ 70 degrees C operating temperature
- Power over coaxial up to 1km

LRP-101UH

- 1-port UTP with passive PoE PSE
- 1-port 10/100TX RJ45 with 802.3at PoE+ Input
- -20 ~ 70 degrees C operating temperature
- Power over UTP up to 500m

Single Port Extender

LRP-101CE

- 1-port BNC with passive PoE PD
- 1-port 10/100TX RJ45 with 802.3at PoE+ PSE to remote PoE IP camera/AP
- -20 ~ 70 degrees C operating temperature

LRP-101UE

- 1-port UTP with passive PoE PD
- 1-port 10/100TX RJ45 with 802.3at PoE+ PSE to remote PoE IP camera/AP
- -20 ~ 70 degrees C operating temperature

LRP-104CET

- 1-port BNC with passive PoE PD
- 4-port 10/100TX RJ45 with IEEE 802.3at PoE+ PSE to remote PoE IP camera/AP
- -20 ~ 70 degrees C operating temperature

All-Inclusive Fiber Optic Network Solution

Telecom

**XGS3-42000R
w/ XGS3-S20X2Q**

Layer 3 Chassis Switch

60x 10G SFP+ **6x 40G QSFP+**

Enterprise

**XGS3-24242/SGS-6340-16XR/
XGS-6350-12X8TR**

L3 Fiber Managed Switches

16x 10G SFP+ Max.

Data Center

XGS-6350-24X4C

Layer 3 100G Managed Switch

24x 10G SPF+ **4x 100G QSFP28**

Factory

**IGS-5225-8T2S2X/
IGS-5225-8P2S2X**

Industrial L2+ Managed Switches

2x 10G SFP+ **-40~75°C**

FTTx

**MGSW-28240F/MGSW-24160F
MGSD-10080F**

Metro Ethernet Switches

4x 10G SFP+ Max. **-10~60°C**

Building

IXT-705AT/XT-705A

Commercial and Industrial
10G Media Converters

-40~75°C

Media Conversion

Centralized Media Converter Management

PLANET Media Converter Chassis allows the installation of up to 15 PLANET standard Media Converters with diverse choices, such as fiber, GEPON, Ethernet, PoE, serial RS232/485 interfaces, VDSL2 and video to meet different network applications. It is very flexible for Media Converter series to be installed in the chassis for centralized media conversion management.

Web/SNMP/OAM Remote Management

For efficient management, the Managed Media Converters are equipped with remote Web interface. They also support the standard SNMP and TS-1000/802.3ah OAM protocol and can be managed via any standard management software.

Extension & Expansion

With the feature-rich chassis, the converters can easily expand the fiber-optic networks by simply plug and play. The wiring distance of PLANET Media Converter Chassis is extendable from 2 to 120 kilometers, and the Media Converter transmission distance is up to 120 kilometers.

Easy Installation

DIN-rail Installation　　**Chassis Installation**　　**Wall-mount Installation**

With standard cases, PLANET Media Converters provide a 3-way installation, including DIN rail, chassis and wall mount, to manage all devices more efficiently.

Environmentally Hardened Design

The Industrial Media Converter Series is equipped with the slim-type IP30 metal case for easy deployment in heavy Industrial demanding environments. Being able to operate under the temperature range from -40 to 75 degrees C, the Industrial Media Converter Series can be placed in almost any difficult environment.

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

Managed Media Converter Chassis

For powerful advanced fiber-optic function and cost-effective solution, PLANET Managed Media Converter Chassis series, MC-1610MR/MC-1610MR48, provides 16 Media Converter slots and one management system in a 19" rack chassis. The MC-1610MR/MC-1610MR48 is designed for FTTx applications by ISPs, telecoms, campuses and enterprises.

The MC-1610MR/MC-1610MR48 helps to easily build the FTTx installation and perfectly satisfies diverse demands. The 16 slots can be flexibly applied with PLANET Fast/Gigabit Ethernet Smart Media Converter (FST-8/GST-8 series) to construct network solution of FTTH (Fiber to the Home), FTTB (Fiber to the Building) or FTTC (Fiber to the Curb) for ISPs, enterprises and campuses. The MC-1610MR/MC-1610MR48 is a reliable and efficient solution for network application where distance and installation budget are highly concerned.

- High-quality 19" rack-mountable chassis installation
- Bay power isolation ensures each bay is electrically isolated from each other
- Installation of up to two fans for increased air-flow for system cooling
- One 10/100/1000Mbps Ethernet port and one RS232 port for management
- LED indicators for system, power and fan status
- NTP client (Time zone setting)
- Remote syslog and local system log
- DHCP client and DNS client
- Temperature detects display and alarm
- Web firmware upgrade
- PLANET Smart Discovery Utility for deployment management
- Media link/connection speed duplex status for each converter module
- Redundant backup system (Redundant Link Media Converter)

MC-1610MR

- Console/Telnet/Web/SNMP management
- 16 hot-swappable modular converter management
- TS-1000/802.3ah OAM remote terminal management
- Two power slots for redundant power, optional AC/-48V DC supplies

MC-1610MR48

- Console/Telnet/Web/SNMP management
- 16 hot-swappable modular converter management
- TS-1000/802.3ah OAM remote terminal management
- Two power slots for redundant power, optional AC/-48V DC supplies

Web/SNMP management

- OAM
- Device Control
- Redundant Link
- Link Status Monitoring
- SNMP Trap Alarm

Hot-swappable/flexible power input

Dual AC

Dual DC

DC + AC

Power Module

Smart Gigabit Media Converters

PLANET GST-80x Smart Gigabit Media Converter series extends communication distance with high Gigabit performance via fiber optic cable. The GST-80x series provides media conversion between 10/100/1000BASE-T and 1000BASE-SX/LX interfaces such as multi-mode LC/SC connectors (220m/550m), single-mode LC/SC connectors (10/20/30/40/50/70/120km) and single fiber connectors (WDM,15/60km) for various fiber optic applications.

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX/LX Ethernet standard
- Choice of fiber connectors from SC, LC, WDM, multi-mode/ single-mode fiber/1000BASE-SX/ LX mini GBIC module
- Auto MDI/MDIX on TP port
- LLR /LLCF for fiber connection diagnostic
- IEEE 802.3ah OAM/TS-1000 OAM
- Manageable through MC-1610MR/MC-1610MR48
- LED indicators for converter status
- 9K jumbo frame size supported
- DIP switch for fiber (auto-negotiation/manual) and LFP function (disable/enable) setting
- EMI standards complies with FCC, CE class A

GST-802
- One 1000BASE-SX port with SC connector
- Supports fiber optic up to 550m

GST-802S
- One 1000BASE-LX port with SC connector
- Supports fiber optic up to 10km

GST-805A
- One 1000BASE-SX/LX SFP slot
- Supports fiber optic up to 120km (Vary on SFP module)

GST-806A15
- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 15km

GST-806B15
- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 15km

GST-806A60
- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 60km

GST-806B60
- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 60km

Smart Fast Ethernet Media Converters

PLANET Smart Fast Ethernet Media Converter, FST-80x series, extends communication distance with highly-stable performance via fiber optic cable. The FST-80x series provides media conversion between 10/100BASE-TX and 100BASE-FX interfaces such as multi-mode ST/SC connectors (2km), single-mode SC connector (15/35/50km), single fiber connector (WDM, 20km) and fiber connection options for various applications.

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX and 100BASE-FX Ethernet standard
- One 10/100BASE-TX port with RJ45 connector, one 100BASE-FX port with ST/SC/LC/WDM connector supporting multi-mode or single-mode fiber optic cable
- Auto MDI/MDIX on TP port
- LLR/LLCF for fiber connection diagnostic
- Manageable through MC-1610MR/MC-1610MR48
- LED indicators for converter status
- DIP switch to set fiber (HDX/FDX), UTP (auto-negotiation/manual), speed (10/100Mbps), duplex mode (half/full duplex mode), LLR (disable/enable), LLCF (disable/enable), flow control (disable/enable) and LFP function (disable/enable)
- EMI standards complies with FCC, CE class B

FST-801
- One 100BASE-FX port with ST connector
- Supports fiber optic up to 2km

FST-802
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 2km

FST-802S15
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 2km

FST-802S35
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 35km

FST-802S50
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 50km

FST-806A20
- One 100BASE-FX port with WDM connector
- Supports fiber optic up to 20km

FST-806B20
- One 100BASE-FX port with WDM connector
- Supports fiber optic up to 20km

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

Media Converter Chassis

Offering more capacity to the converters in one chassis, PLANET MC-700/MC-1500 provides 7/15 slots in the 10"-19" rack saving more spaces for fiber-optic wiring yet simplifying the maintenance of media conversion. It allows the connectivity of up to 7-/15-slot PLANET Fast Ethernet, Gigabit Ethernet or VDSL2 Converters in one chassis. One fan with LED indicators for the system cooling is also available.

Providing redundant power to gain more reliable media conversions, the MC-1500R/MC-1500R48 offers 15 slots for PLANET's full-ranging Media Converter series and 2 slots for 130W or DC -48V redundant power supply. It allows the connectivity of up to 15 PLANET Fast Ethernet, Gigabit Ethernet or VDSL2 Converters in one chassis. Two fans with LED indicators for the system cooling are also available.

The MC-700, MC-1500, MC-1500R and MC-1500R48 offer flexibility in installation and cost-effective scalable solution. With an independent power supply on each slot of the MC-700, MC-1500, MC-1500R and MC-1500R48, any converter is hot-swappable without causing an interruption to other converters. The Media Converters and power modules can be plugged and played anytime. Each bay of the Media Converter Chassis can be populated with any of PLANET's Media Converter series, the FT, GT, VC-20x and ICS, which provide media conversion between fiber optic, phone wire and serial to copper lines.

- High-quality 10"/19" rack-mountable chassis installation
- Bay power isolation ensures each bay is electrically isolated from each other
- Power protection: protection from over voltage, over current and short circuit
- One/two built-in fans for hardware cooling
- Supplies the converters and power modules to be plugged and played
- Reduces the effort of converter maintenance and management and diagnose the status at one time
- FCC Part 15 Class A, CE

MC-1500R Rear Panel

MC-700

- 7-slot hot-swappable
- LED indicators for system status monitoring
- Built-in AC power supply unit

MC-1500

- 15-slot hot-swappable
- LED indicators for system status monitoring
- Built-in AC power supply unit

MC-1500R

- 15-slot hot-swappable
- LED indicators for system status monitoring
- One AC 100-240V power input
- Redundant power supply with option of 100~240V AC or -48V DC

MC-1500R48

- 15-slot hot-swappable
- LED indicators for system status monitoring
- One DC -48V power input
- Redundant power supply with option of 100~240V AC or -48V DC

Network
Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband
Communication

Wireless LAN

IP Surveillance

IP Telephony

Network
Security

Network
Peripheral

Home
Automation

Gigabit Ethernet Media Converters

For the flexibility of all kinds of 10/100/1000Mbps Ethernet Media on RJ45 port and highly-stable Gigabit fiber performance, PLANET GT-802, GT-802S, GT-805A and GT-806A/B series and GT-1205A Gigabit Ethernet Media Converter extend communication distance with Gigabit performance via fiber optic cable. The GT-80x series and GT-1205A provide media conversion between 10/100/1000BASE-T and 1000BASE-SX/LX interfaces such as multi-mode LC/SC connectors (220m/550m), single-mode LC/SC connectors (10/20/30/40/50/70/120km) and single fiber connectors (WDM, 15/60km) for various fiber optic applications.

PLANET GT-80x series and GT-1205A Gigabit Ethernet Media Converter support auto MDI/MDI-X on their TP port. The GT-802x series provides DIP switch to configure the Link Fault pass-through function (LFP). LLCF/LLR can immediately alarm administrators the problem of the link media and provide efficient solution to monitoring the network. The DIP switch provides disabling or enabling the LFP function.

The GT-80x series and GT-1205A can be used as a standalone unit when powered by its DC adapter or used as a slide-in module to PLANET 10-/19-inch 7-/15-slot Media Converter Chassis (MC-700/MC-1500/MC-1500R/MC-1500R48).

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX/LX
- IEEE 802.3x full-duplex flow-control and back-pressure in half-duplex eliminate the loss of packets
- Auto MDI/MDIX on TP port
- 9K jumbo frame
- OAM terminal (TS-1000 and IEEE 802.3ah)
- LED indicators for easy network diagnostics
- External 5V/2A DC power supply
- Wall mounting and DIN-rail supported
- Compact in size, easy installation
- 10-/19-inch chassis compatibility (MC-700/MC-1500/MC-1500R/ MC-1500R48)

GT-802

- One 1000BASE-SX port with SC connector
- Supports fiber optic up to 550m

GT-802S

- One 1000BASE-LX port with SC connector
- Supports fiber optic up to 10km

GT-805A

- One 1000BASE-SX/LX SFP slot
- Supports fiber optic up to 120km (Vary on SFP module)

GT-806A15

- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 15km

GT-806B15

- One 1000BASE-LX port with WDM
- Connector
- Supports fiber optic up to 15km

GT-806A60

- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 60km

GT-806B60

- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 60km

GT-1205A

- Dual 1000BASE-X mini-GBIC SFP slot
- Supports fiber optic up to 120km (depending on SFP module)
- One 10/100/1000BASE-T Copper Port
- 3-port switch mode or redundant mode
- Hardware fiber port redundancy
- IEEE 802.3x flow control

GT-805A-PD

- PoE Powered
- Compliant with 802.3af/at
- PoE/5V DC dual power input
- One 1000BASE-SX/LX SFP slot
- Supports fiber optic up to 120km (Vary on SFP module)

Fast Ethernet Media Converters

PLANET FT-80x series is a Fast Ethernet Bridge 100BASE-FX fiber to 10/100BASE-TX shielded twisted pair (STP) converter. It supports both half-duplex and full-duplex operations and a variety of fiber options. The converter automatically adapts to the highest level of performance supported by the device connected to the STP port.

The fiber port of FT-80x series operates at 1310nm and uses ST, SC, MTRJ and WDM connectors. Multi-mode models support distances up to 2km and single-mode models that support distances up to 15/20/35/50km are available.

PLANET FT-80x series is with LFP (Link Fault Pass-through) function, LLCF/LLR and the DIP Switch design. LLCF/LLR can immediately alarm administrators the problem of the link media and provide efficient solution to monitoring the network. The DIP switch provides disabling or enabling the LFP function.

PLANET FT-1205A is a 3-port redundant Media Converter which supports conversion between 10/100BASE-TX and 100BASE-FX network. It is designed for critical networks that require fibers or copper links to automatically recover less than 10ms, such as ISPs, telecoms, hospitals, banks and enterprises.

The SFP slot supports single-mode, multi-mode and WDM small-form factory type transceiver modules for various applications. The FT-1205A is highly reliable and flexible to extend the distance up to 2km, 20km or longer. Depending on the 100BASE-FX SFP transceiver modules, the Ethernet signal allows two types of segments to connect easily and efficiently.

The FT-80x series and FT-1205A can be used as a standalone unit when powered by its DC adapter or used as a slide-in module to PLANET 10-/19-inch 7-/15-slot Media Converter Chassis (MC-700/MC-1500/MC-1500R/MC-1500R48).

- Complies with IEEE 802.3, IEEE 802.3u 10/100BASE-TX, 100BASE-FX
- IEEE 802.3x full-duplex flow-control and back-pressure in half-duplex eliminate the loss of packets
- Auto MDI/MDIX on TP port
- Rear DIP switch for FX duplex mode selection
- Side DIP switch for LFP mode selection
- LED indicators for easy network diagnostics
- External 5V/2A DC power supply
- Wall mounting and DIN-rail supported
- Compact in size, easy installation
- 10-/19-inch chassis compatibility (MC-700/MC-1500/MC-1500R/MC-1500R48)

FT-801
- One 100BASE-FX port with ST connector
- Supports fiber optic up to 2km

FT-802
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 2km

FT-803
- One 100BASE-FX port with MTRJ connector
- Supports fiber optic up to 2km

FT-802S15
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 15km

FT-802S35
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 35km

FT-802S50
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 50km

FT-806A20
- One 100BASE-FX port with WDM connector
- Supports fiber optic up to 20km

FT-806B20
- One 100BASE-FX port with WDM connector
- Supports fiber optic up to 20km

FT-1205A
- Dual 100BASE-FX SFP slot
- Supports fiber optic up to 60km (Vary on SFP module)
- 3-port switch mode or redundant mode
- LBR (Loop Back Reply) on/off selection

Standalone Managed Media Converters

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

PLANET FT-90x series provides conversion between 10/100BASE-TX and 100BASE-FX network. There are SC/LC/WDM connectors and single-mode/multi-mode media for your needs. Ethernet signal allows two types of segments to connect easily, efficiently and inexpensively.

PLANET GT-90x series provides much flexibility with all kinds of 10/100/1000Mbps Ethernet Media on RJ45 port and offers highly stable Gigabit fiber performance. It supports conversion between 10/100/1000BASE-T and 1000BASE-LX/SX network, which includes SC/SFP/WDM connectors with single-mode or multi-mode media as required.

For efficient management, PLANET FT-90x/GT-90x Managed Ethernet Media Converter series is equipped with remote Web/SNMP interface. With its built-in Web-based management, PLANET FT-90x/GT-90x series acts as an easy-to-use, platform-independent management and configuration facility.

The FT-90x/GT-90x series can be used as a stand-alone unit or as a slide-in module to PLANET Media Converter Chassis (MC-700, MC-1500 and MC-1500R, MC-1500R48). The Media Converter Chassis can provide DC power to the FT-90x/GT-90x series to maintain the fiber-optic network at the central location.

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, 100BASE-FX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX/LX
- Choice of fiber connectors: SC, LC, WDM, multi-mode/single-mode
- LED indicators for easy network diagnostics
- Auto MDI/MDIX on TP port
- IP-based web interface
- SNMP v1/v2c monitor/private Enterprise MIB
- 802.1Q/Q-in-Q/Management VLAN
- Maximum frame size up to 16K bytes
- TS-1000 OAM/IEEE 802.3ah OAM/Loop Back Test
- External DC 5V 2A power supply
- Dying Gasp
- Compact in size, easy installation
- FCC Class A, CE Class A
- 10-/19-inch chassis compatibility (MC-700/MC-1500/MC-1500R /MC-1500R48)
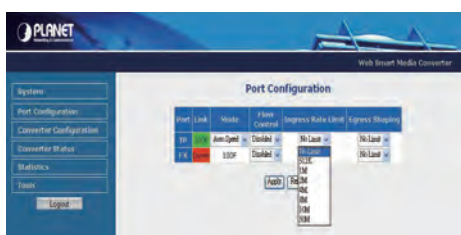
Remote Web Management

FT-902
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 2km

FT-902S15
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 15km

FT-902S35
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 35km

FT-902S50
- One 100BASE-FX port with SC connector
- Supports fiber optic up to 50km

FT-906A20
- One 100BASE-FX port with WDM connector
- Supports fiber optic up to 20km

FT-906B20
- One 100BASE-FX port with WDM connector
- Supports fiber optic up to 20km

GT-902
- One 1000BASE-SX port with SC connector
- Supports fiber optic up to 550m
- Supports Dying Gasp

GT-902S
- One 1000BASE-LX port with SC connector
- Supports fiber optic up to 10km
- Supports Dying Gasp

GT-905A
- One 1000BASE-SX/LX SFP slot
- Supports fiber optic up to 120km (depending on SFP module)
- Supports Dying Gasp

GT-906A15
- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 15km
- Supports Dying Gasp

GT-906B15
- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 15km
- Supports Dying Gasp

GT-906A60
- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 60km
- Supports Dying Gasp

GT-906B60
- One 1000BASE-LX port with WDM connector
- Supports fiber optic up to 60km
- Supports Dying Gasp

VDSL2 Media Converters

PLANET VC series is Ethernet-over-VDSL2 Media Converter with high performance. It is based on two core networking technologies, Ethernet and VDSL2 (Very-high data-rate Digital Subscriber Line 2). The VDSL2 technology offers the absolutely fastest data transmission speeds over the existing copper telephone lines without the need of rewiring.

The VC series can be used as a standalone unit when powered by its DC adapter or used as a slide-in module to PLANET 10-/19-inch 7-/15-slot Media Converter Chassis (MC-700/MC-1500/MC-1500R/MC-1500R48).

- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX and IEEE 802.3x flow control Ethernet standards
- CO/CPE selectable via DIP switch
- DMT (Discrete Multi-Tone) line coding
- IEEE 802.1Q VLAN tag transparent, 1536 bytes packet size support
- LED indicators for easy network diagnostics
- External DC 5V 2A power supply
- Wall mounting and DIN-rail supported
- Compact in size, easy installation
- 10-/19-inch chassis compatibility (MC-700/MC-1500/MC-1500R/MC-1500R48)
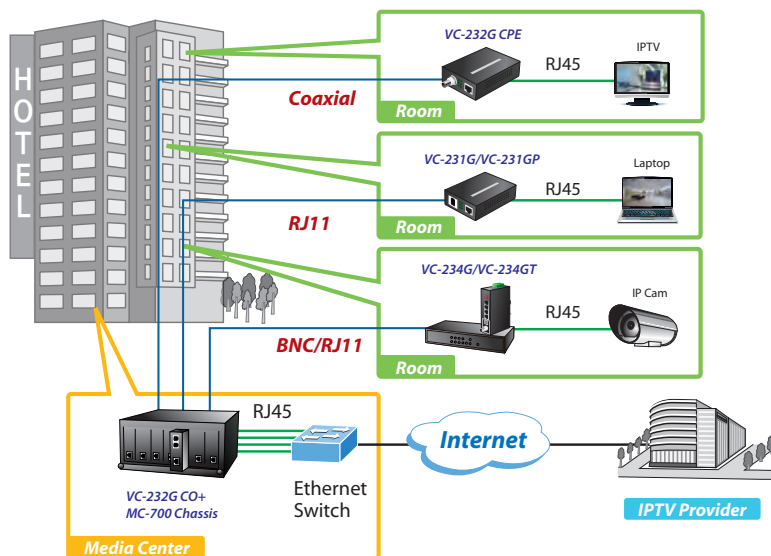
VC-201A

- ITU-T G.993.2 VDSL2 (Profile 17a)
- 2 RJ11 connectors for VDSL2 and POTS connection with up to 1.4km distance support

VC-202A

- ITU-T G.993.2 VDSL2 (Profile 17a)
- One BNC connector for VDSL2 connection with up to 3km distance support

VC-231

- ITU-T G.993.2 VDSL2 (Profile 17a/30a)
- One RJ11 connector for VDSL2 connection with up to 1.4km distance support

VC-231G/VC-231GP

- One RJ11 connector for VDSL2 connection
- One 10/100/1000BASE-T RJ45
- ITU-T G.993.5 G.vectoring and G.INP
- Upstream/Downstream bandwidth up to 200/100Mbps
- CO/CPE mode selectable via DIP switch
- Selectable target band plan and SNR margin
- 30-watt 802.3at PoE+ PSE (VC-231GP)

VC-232G

- One BNC connector for VDSL2 connection
- Uses existing RG59/RG6 coaxial cable
- One 10/100/1000BASE-T RJ45
- ITU-T G.993.5 G.vectoring and G.INP
- Upstream/Downstream bandwidth up to 200/100Mbps
- CO/CPE mode selectable via DIP switch
- Selectable target band plan and SNR margin

VC-234G/IVC-234GT

- One RJ11 connector for VDSL2 connection
- One phone connector for telephone connection
- Four 10/100/1000BASE-T RJ45
- ITU-T G.993.5 G.vectoring and G.INP
- Upstream/Downstream bandwidth up to 200/100Mbps
- CO/CPE mode selectable via DIP switch
- Selectable target band plan and SNR margin
- -40 to 75 degrees C operating temperature (IVC-234GT)

Serial over Ethernet Media Converters

PLANET ICS-10x Media Converter/Device Server series can convert Serial RS232/RS422/ RS485 communication interface over Fast Ethernet networking. There are RJ45 and SC type connectors and single-mode/multi-mode media for customers' needs. Ethernet signal allows two types of segments to connect easily and efficiently. The ICS-10x converter can be used as a stand-alone unit or as a slide-in module to PLANET Media Converter Chassis (MC-700/MC-1500/MC-1500R/MC-1500R48). It greatly saves time and expense for users and SIs without the need of replacing the existing serial equipment and software system.

The ICS-10x enables the serial equipment to be connected via IP-based transmission. It also enables them to be connected to a TCP/IP networking immediately. The ICS-10x provides management through Web interface. It supports application mode, serial operation mode alarm connection and IP address, etc. It helps the network administrators to reduce the amount of valuable time spending on detecting and locating network problems, otherwise, it requires visual inspection of cabling and equipment. For large networking environment, multiple connection options are available with the ICS-10x Media Converter series as well.

- Complies with IEEE 802.3, IEEE 802.3u 10/100BASE-TX, 100BASE-FX standard
- Choice of fiber connectors: SC/LC, multi-mode/single-mode fiber
- IP-based web interface
- SMTP e-mail for alarm notification of events
- LED indicators for easy network diagnostics
- PLANET Smart Discovery utility finds ICS-10x devices on the network automatically
- Firmware upgrade via HTTP protocol
- Reset button on the front panel for reset to factory default
- Wall mounting and DIN-rail supported
- Compact in size, easy installation
- 10-/19-inch chassis compatibility (MC-700/MC-1500/MC-1500R/MC-1500R48)

Standalone Installation - Device Gateway Server
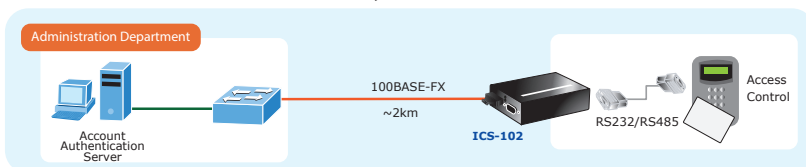
Pair Connection - Local to Remote Serial Extension
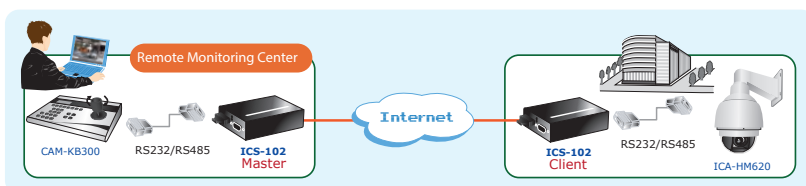
ICS-100

- One RS232/RS422/RS485 port
- 1-port 10/100BASE-TX, auto MDI/MDIX

ICS-102

- One RS232/RS422/RS485 port
- 1-port 100BASE-FX SC, 2km fiber optic

ICS-102S15

- One RS232/RS422/RS485 port
- 1-port 100BASE-FX SC, 15km fiber optic

ICS-105A

- One RS232/RS422/RS485 port
- 1-port 100BASE-FX SFP fiber optic

ICS-2100

- 1-port 10/100BASE-TX
- 1 RS232 with DB9 interface
- 1 RS485 or RS422 with terminal block interface
- 24V AC and 12~48V DC redundant power
- -10 to 60 degrees C operating temperature
- IP30 metal case

ICS-2102

- 1-port 100BASE-FX SC, 2km fiber optic
- 1 RS232 with DB9 interface
- 1 RS485 or RS422 with terminal block interface
- 24V AC and 12~48V DC redundant power
- -10 to 60 degrees C operating temperature
- IP30 metal case

ICS-2105A

- 1-port 100BASE-FX SFP fiber optic
- 1 RS232 with DB9 interface
- 1 RS485 or RS422 with terminal block interface
- 24V AC and 12~48V DC redundant power
- -10 to 60 degrees C operating temperature
- IP30 metal case

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

10G Ethernet Media Converter

With target applications including 1Gbps, 2.5Gbps, 5Gbps and 10G Ethernet switching and aggregation, PLANET IXT and XT 10G Media converter series is ideal for wide applications for copper to fiber media conversion wherever 10Gigabit bandwidth is required.

The IXT and XT series has one RJ45 port and one SFP+ slot. It supports 10Gigabit Ethernet media conversion from copper 10GBASE-T to fiber multi-mode or single-mode, utilizing 10GBASE-SR or 10GBASE-LR SFP+ transceiver installed in the SFP+ slot to extend distances to servers, switches and patch panels. The deployment distance can be extended from 300 meters (multi-mode) to up to 60 kilometers (single-mode).

The IXT series is designed for use in network environments where the ultra-high bandwidth provided by 10Gigabit Ethernet is required, for example, data center cloud computing, enterprise backbones, campus networks, and carrier infrastructure.

XT-705A

- One 10GBASE-X SFP+ slot
- One 10G/5G/2.5G/1G/100M RJ45 copper
- Complies with IEEE 802.3ae 10GBASE-R
- NBASE-T featuring adaptive rate operation
- 100 meters over Cat 6A at 10Gbps
- Low power consumption
- Compact size; compatible with MC-700/MC-1500 Chassis

10G SFP+   **NBASE-T**

IXT-705AT

- One 10GBASE-X SFP+ slot
- One 10G/5G/2.5G/1G/100M RJ45 copper
- Complies with IEEE 802.3ae 10GBASE-R
- NBASE-T featuring adaptive rate operation
- 100 meters over Cat 6A at 10Gbps
- -40~75 degrees C operating temperature
- IP30 metal case
- Low power consumption

10G SFP+   **NBASE-T**

Video over Fiber Optic Converters

PLANET has developed the video over Gigabit fiber media converter kit, VF-101G/102G/106G/402-KIT, which is ideal for extending the distance and signal conversion by transmitting the AHD/CVI/TVI/CVBS video and data over the fiber-optic cable.

The VF-10xG series and VF-402 include different types of fiber connectors such as ST, FC and WDM-SC which enable CCTV applications to replace the traditional coaxial cable with stable fiber cable performing more efficiently.

Adopting the intelligent encoding/decoding technology and with the compact box, the VF-10xG-KIT video over fiber media converter series enables videos to be delivered in high quality over a distance of up to 20km long.

- High-speed synchronous digital transmission technology
- 8-/10-bit digital video signal sampling
- Data type: RS485
- PAL, NTSC, SECAM compatible
- Long-distance data transmission of 20km
- Guarantees safe transmission under poor electromagnetic environment
- Compliant with hybrid video (AHD/TVI/CVI/CVBS)
- Compact size, wall mounting and DIN-rail supported, easy installation
- Standalone or work with PLANET MC-700/1500/1500R media converter chassis (For VF-10XG series)

VF-101G-KIT

- Compliant with hybrid video (AHD/TVI/CVI/CVBS)
- ST multi-mode fiber connector
- Long-distance data transmission of 20km
- Wide temperature range from -25 to 70 degrees C

VF-102G-KIT

- Compliant with hybrid video (AHD/TVI/CVI/CVBS)
- FC multi-mode fiber connector
- Long-distance data transmission of 20km
- Wide temperature range from -25 to 70 degrees C

VF-106G-KIT

- Compliant with hybrid video (AHD/TVI/CVI/CVBS)
- WDM-SC multi-mode fiber connector
- Long-distance data transmission of 20km
- Wide temperature range from -25 to 70 degrees C

VF-402-KIT

- Compliant with hybrid video (AHD/TVI/CVI/CVBS)
- FC multi-mode fiber connector
- Long-distance data transmission of 20km
- Wide temperature range from -20 to 70 degrees C
- Fiber optic transmission of four video signals on one fiber with RS485 data signals

High-Performance Internet Solution
for FTTx and Triple Play Applications

GEPON
GEPON SFU ONU

VDSL2
VDSL2 Converter

IPTV

Internet

Online Gaming

VoIP via Wi-Fi

Broadband Communication

CO

CPE

PLANET Last Mile Transmission Solution provides not only CO (Central Office) side of equipment for ISPs but also CPE (Customer Premises Equipment) side of device for end users. Its high bandwidth certainly meets the requirements of triple play devices for today's home entertainment and communications.

Delivering Highly-demanding Connectivity for ISPs/Triple Play Devices

With the capability of 100/100Mbps symmetric data transmission, PLANET VDSL2 Solution enables many multi-media services, such as VoD (Video on Demand), Voice over IP, video phone, IPTV, Internet caching server, distance education and so on, to work on the Internet without any reservation.

1.25Gbps High-speed and 20km Long-distance Coverage for Triple Play Services

PLANET GEPON Solution provides a high bandwidth of up to 1.25Gbps for both upstream and downstream, and a long-distance coverage of up to 20km between equipment nodes for network deployment, thereby meeting the demand of increasing home multimedia and entertainment.

Managing Your Office from Your Mobile Device

Users have an IP PBX phone number including an office extension number where calls ring simultaneously on their mobile device, making it easy to connect one another wherever they are. Access to people, messages and information helps mobile users deliver whether they are in or out of the office.

GEPON

Perfectly Designed for FTTx Applications

With growing network services such as HDTV, IPTV, Voice-over-IP (VoIP) and multimedia broadband applications, the demand for broadband increases quickly. The present broadband environment is not in accord with the requirements; however, Passive Optical Network (PON) would be the most promising NGN (Next Generation Networking) technology to fulfill the demand.

- PON interface complies with IEEE 802.3ah
- Up to 20km in distance
- Up to 1.25Gbps upstream and downstream
- Dynamic bandwidth allocation (DBA) support
- Supports IEEE 802.1q VLAN
- Point-to-multipoint network topology
- Up to 32 OLTs management through single GUI
- User-friendly GUI management

EPL-2220

GEPON OLT

- Optical split ratio: Up to 1:64
- 2-PON interface, 2 x GbE SFP, 2 x 1000BASE-T RJ45, 1 x MGT port
- Supporting up to 16K MAC address table
- Supporting 802.1Q VLAN
- Up to 32 OLTs management through EMS
- User-friendly WEB management interface

EPN-110

GEPON ONU

- PON interface, 1-port GE interface
- Dynamic bandwidth allocation (DBA) support
- Supports 64 MAC addresses

EPL-SPT-8/EPL-SPT-32/EPL-SPT-64

GEPON Splitter

- 1 : 8 high split ratio (EPL-SPT-8)
- 1 : 32 high split ratio (EPL-SPT-32)
- 1 : 64 high split ratio (EPL-SPT-64)
- Wide operating wavelength:1260nm to 1650nm
- Wide operating temperature: -40 to 85 degrees C

Fiber To The Home (FTTH) Application

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation
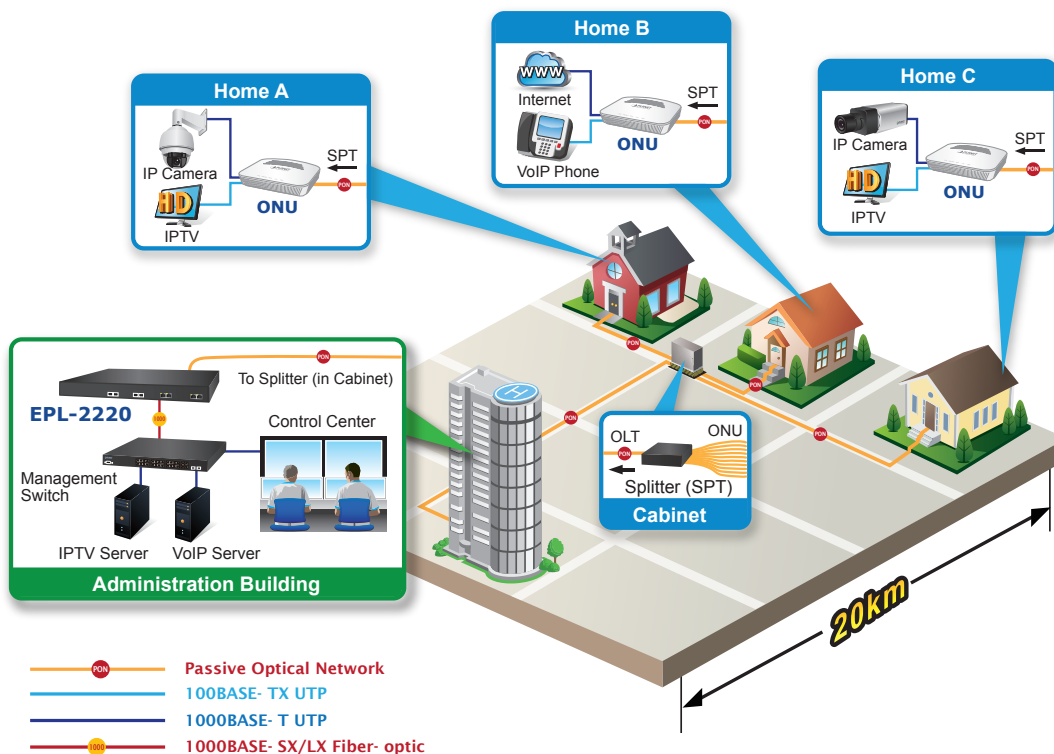
VDSL2 IP DSLAM/CO Switches

VC-820M

8-port VDSL2 CO + 2G TP/SFP combo managed switch

- 8-port VDSL2 CO subscriber interface
- Built-in POTS splitter for each VDSL port.
- Auto-MDI/MDI-X detection on Gigabit RJ45 port.
- ITU-T G.993.2 VDSL2 standard.
- DMT (Discrete Multi-Tone) line coding VDSL.
- Supports VLAN,GVRP, Private VLAN, Spanning Tree.
- Supports QoS (IEEE 802.1p CoS- IP ToS/DSCP), IGMP, RADIUS.

Perfectly Designed for FTTx Last Mile Applications

PLANET VC-820M is a telecom-level, high-performance VDSL2 IP DSLAM (Digital Subscriber Line Access Multiplexer) with 8-port VDSL2, 2-port Gigabit TP/SFP combo interfaces and robust Layer 2 switching features. The VC-820M is fully compliant with the ITU-T G.993.2 standard and supports VDSL2 30a profiles to offer maximum download and upload line rate up to 100/100Mbps on the existing twisted pair lines. The VC-820M provides service providers with high bandwidth for triple-play services such as IPTV, HDTV, video phone and Internet gaming on the same copper line, and uplink to the core/metro Ethernet network through the two Gigabit fiber optical interfaces. It is an ideal CO solution for FTTx Last Mile applications of broadband access by ISPs, telecoms and campuses.

Hotel Application

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

VDSL2 Bridges/Routers

High-Performance VDSL2 Data Rate over Existing Phone Lines

PLANET 30a VDSL2 Solution contains various VDSL2 CPE (customer premises equipment) models for telecoms, ISPs (internet service providers), SIs (system integrators), IP surveillance providers, etc. It is based on two core networking technologies -- Ethernet and VDSL2 (very-high-data-rate digital subscriber line 2). The total VDSL2 solution offers the absolutely fastest data transmission speeds over the existing cooper telephone lines without the need of rewiring. The ideal xDSL technology provides the best solution to the last-mile connectivity.

Ethernet over VDSL2 Converter

- One box design, CO/CPE selectable via DIP switch
- ITU-T G.993.2 VDSL2 (Profile 17a or Profile 30a)
- Built-in POTS splitter
- Compact in size, easy installation
- 10-/19-inch chassis compatible (MC-700/MC-1500/1500R)

VDSL2 Point to Point Application for Best Performance
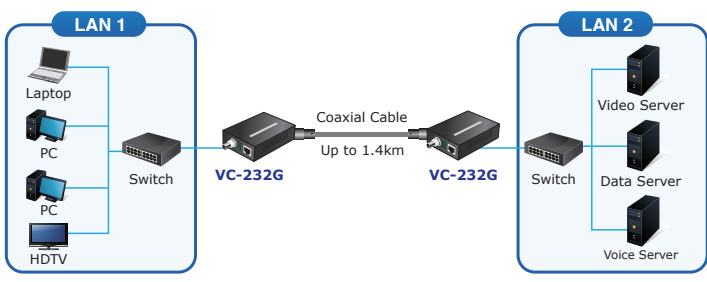
VDSL2 Point to Multi-Point Application for Flexible Deployments
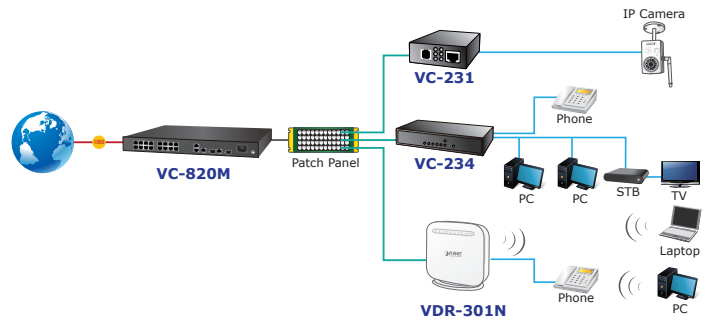
VC-231

High bandwidth 10/100TX over VDSL2 Media Converter

- VDSL2 ITU-T G.993.2 30a profile
- 100/100Mbps download/upload @1000ft
- 1-port 10/100BASE-TX RJ45

VC-234

High bandwidth 4-port 10/100TX to VDSL2 Bridge

- VDSL2 ITU-T G.993.2 30a profile
- 100/100Mbps download/upload @1000ft
- 4-port 10/100BASE-TX RJ45

VDR-301N

300Mbps Wireless VDSL2 Bridge Router

- Built-in VDSL2 modem
- G. vectoring
- Multiple WAN connections
- Supports IPv6
- TR069 compliant
- Traffic Shaping for traffic control

VC-231G/VC-231GP

1-port 10/100/1000T Ethernet over VDSL2 Media Converter

- One RJ11 connector for VDSL connection
- One 10/100/1000BASE-T RJ45
- ITU-T G.993.5 G.vectoring and G.INP
- Upstream/Downstream bandwidth up to 200/100Mbps
- CO/CPE mode selectable via DIP switch
- Selectable target band plan and SNR margin
- 30-watt 802.3at PoE+ PSE (VC-231GP)

VC-232G

1-port 10/100/1000T Ethernet over Coaxial Media Converter

- One BNC connector for VDSL connection
- Uses existing RG59/RG6 coaxial cable
- One 10/100/1000BASE-T RJ45
- ITU-T G.993.5 G.vectoring and G.INP
- Upstream/Downstream bandwidth up to 200/100Mbps
- CO/CPE mode selectable via DIP switch
- Selectable target band plan and SNR margin

VC-234G

4-port 10/100/1000T Ethernet to VDSL2 Bridge

- One RJ11 connector for VDSL connection
- One phone connector for telephone connection
- Four 10/100/1000BASE-T RJ45
- ITU-T G.993.5 G.vectoring and G.INP
- Upstream/Downstream bandwidth up to 200/100Mbps
- CO/CPE mode selectable via DIP switch
- Selectable target band plan and SNR margin

Office

Hotel Lobby

Control Center

Wireless LAN Switch with PoE+

64+ APs

Enterprise-class Wireless LAN Controller

500/1000 APs

Software AP Controller

256 APs

Comprehensive Centralized
Wireless AP Management Solution

Optimizing Wireless Network within Minutes
Control over 1,000 APs

Graphical Statistics

Dashboard

Zone Plan

Indoor Managed Access Points

Outdoor Managed Access Points

Wireless LAN

Centralized Wireless LAN Management via UNI-NMS

Designed for large-scale wireless network in smart cities, such as hotels, shopping malls, SMBs, buildings and any public area, PLANET's Centralized Wireless LAN Management Solution can centrally manage up to 1,024 indoor and outdoor wireless APs via PLANET's Universal Network Management System (UNI-NMS) or DDNS cloud portal.

Efficient AP Positioning

With the simplified Cluster AP management including Multi SSIDs, Zone Plan and Google Map, the administrator can automatically discover, configure, monitor and locate all the managed APs without configuring each AP one by one, thus greatly optimizing the wireless network performance.

Comprehensive and User-friendly AP Control

PLANET's Centralized Wireless LAN Management Solution provides the browser-based dashboard and graphical data analysis to show the administrator valuable wireless network information at a glance. Moreover, the Wireless Controllers come with an intuitive color touch LCD or LCD control that help the administrator to monitor APs and wireless network in real time.

Ultra-high-speed Transmission and Harsh Environment Protection

Adopting Ultra-high-speed 802.11ac technology and 2.4GHz/5GHz dual band wireless communications, PLANET Outdoor Wireless Solution offers a wide coverage of wireless Internet access and ultimate wireless speed. To reach maximum reliability in the harsh environment, PLANET Outdoor Wireless Solution featuring IP68-rated, rugged aluminum housing and operating temperature ranging from -40 to 70 degrees C, withstands rigorous weather conditions like heavy rain, wind and snow.

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Wireless AP Management Solution

PLANET Wireless AP Management Solution offers multiple ways of central AP management with Hardware AP Controller, Software AP Controller and Firmware AP Controller. The solution enables you to control up to 500 APs in different indoor or outdoor locations at the same time. Featuring the friendly floor plan, dashboard and graphical statistic functions through one single browser-based web user interface, the administrator can easily discover, configure, update and monitor all the managed APs.

Hardware AP Controller

WAPC-1000/WAPC-500
Wireless AP Controller

- AP auto-discovery
- Control up to 1024/512 APs
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Rogue AP detection
- User authentication and MAC ACL
- Customized captive portal
- Profile creation and maintenance
- Online firmware detection and batch upgrade

CS-950
UTM AP Controller

- Control up to 50 APs
- Central provisioning and cluster management
- AP settings delivering at a time
- User-defined SSID sorting per AP
- Configurable AP management account
- User authentication and MAC ACL
- Customized captive portal
- Unified security gateway with VPN connectivity
- Advanced anti-virus and anti-spam services
- IDP service and content filtering
- Supported AP Models: WDAP-702AC, WBS-200N, WAP-200N

*Check our company website for more updated supported AP models.

WS-2864PVR
Wireless AP Managed Switch with 24-Port 802.3at PoE + 4-Port 10G SFP+ + Touch LCD

- AP discovery up to 64 managed APs
- 24 built-in 802.3at PoE+ ports to directly manage AP power control
- AP/PD alive check for operating status diagnostics
- 440-watt PoE budget
- 4 10G SFP+ uplink interfaces
- IPv6/IPv4 Layer 3 static routing
- 2.4-inch color LCD touch screen with management functions

WS-1232P
Wireless AP Managed Switch with 8-Port 802.3at PoE + 2-Port 10G SFP+

- AP discovery up to 64 managed APs
- Eight built-in 802.3at PoE+ ports to directly manage AP power control
- AP/PD alive check for operating status diagnostics
- 240-watt PoE budget
- 2 10G SFP+ uplink interfaces

WGR-500-4PV

- 2.4-inch color LCD touch screen with management functions
- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 802.1Q VLAN and IGMP proxy
- PoE schedule, scheduled power recycling, PD alive check
- AP auto-discovery
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Rogue AP detection
- User authentication and MAC ACL
- Customized captive portal
- Profile creation and maintenance
- Online firmware detection and batch upgrade

WGR-500-4P

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 802.1Q VLAN and IGMP proxy
- PoE schedule, scheduled power recycling, PD alive check
- AP auto-discovery
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Rogue AP detection
- User authentication and MAC ACL
- Customized captive portal
- Profile creation and maintenance
- Online firmware detection and batch upgrade

Software AP Controller

Smart AP Control (SAPC)

- AP auto-discovery
- Controls up to 256 APs
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Profile creation and maintenance
- VM-based control, cross platforms
- Free license fee

256 APs | Google Map | VM | RADIUS | Floor Map

Firmware AP Controller

WDAP-1750AC

- AP auto-discovery
- Controls 1 to 5 APs (the same model required)
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Profile creation and maintenance
- Network Management System (NMS)

5 APs | Floor Map | RADIUS

Smart AP Control

AP Management Just Got Easier, More User-friendly & More Usable

Graphical Statistics

Google Map

Dashboard

System Info.　AP Status　Alert　Active Clients

Color Touch LCD

LCD Control

Simplified Cluster Management with 4 Steps

AP Found

Group 1　AP 1

AP 2　Group 2

Step 1	Step 2	Step 3	Step 4
Search	Add Profile	Batch Provisioning	Map It

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation
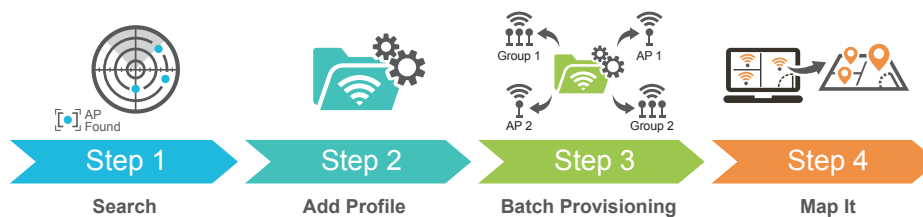
Enterprise Wi-Fi Networking Solution

PLANET enterprise PoE access points feature the latest 802.11ac wireless technology, advanced management functions and superior encryption standard yet cost-effectiveness. Meeting today's demand for advanced performance and security, PLANET enterprise PoE access points include multiple SSIDs, WPA/WPA2, RADIUS MAC authentication and so forth. It is the perfect choice for homes, SOHOs, hotels, and offices to allow you to check e-mail and surf the Internet via the 2.4GHz band and simultaneously watch high-definition (HD) video or any other multimedia application via the 5GHz band.

Enterprise Wireless Access Points

WDAP-1750AC
1750Mbps 802.11ac Wireless AP
- Simultaneous dual-band connectivity in 2.4GHz 450Mbps and 5GHz 1300Mbps
- Gigabit Ethernet ports, one port 802.3at PoE/PD and one port 802.3af PoE/PSE supported
- Built-in RADIUS server
- 802.1Q VLAN tag over WDS and 32 multiple-SSIDs
- Centrally managed by PLANET Firmware AP Controller

WDAP-C7200E
Dual Band 1200Mbps 802.11ac Wireless AP
- Simultaneous dual-band connectivity in
- 2.4GHz 300Mbps and 5GHz 867Mbps
- Gigabit Ethernet ports, 802.3at PoE/PD supported
- 802.1Q VLAN mapping multiple SSIDs
- AP router, universal repeater, WISP mode
- Centrally managed by PLANET WAPC series and Software AP Controller

Multiple Network Technologies for Incredibly 1750Mbps High-Speed Connection

The WDAP-1750AC supports IEEE 802.11a/b/g/n/ac dual band standard with 3T3R antenna technology; therefore, it can provide the wireless speed up to 450+1300Mbps which is 3 times faster than the traditional 11n Access Point. Moreover, the WDAP-1750AC is equipped with all Gigabit Ethernet ports and hardware designed Wi-Fi ON/OFF switch. Compared with general wireless APs, the WDAP-1750AC offers faster transmission speed and more convenient method to enable or disable wireless signal.

Enterprise Wireless Access Points

WNAP-C3220E
2.4GHz 300Mbps 802.11n Wireless AP

- 10/100BASE-TX port, 802.3af PoE/PD supported
- 802.1Q VLAN mapping multiple-SSIDs
- AP Router, Universal Repeater, WISP modes
- Centrally managed by PLANET WAPC series and Software AP Controller

WNAP-W2200UE
2.4GHz 300Mbps 802.11n Wireless AP

- 10/100BASE-TX ports, with one 802.3af PoE/PD port supported
- 802.1Q VLAN mapping multiple SSIDs
- AP router, universal repeater, WISP mode
- In-wall design with USB charger port
- Centrally managed by PLANET WAPC series and Software AP Controller

Multi-SSID   SNMP   VLAN   High Power

Fast and Secure Wi-Fi Connectivity

Cost-effective and Managed Wireless Network Solution for Enterprises
2.4GHz 300Mbps 802.11n Ceiling-mount Wireless Access Point

Wireless Presentation Gateways

WIPG-300H

- Full HD1080p HDMI/VGA output
- 4-to-1 split screen projection
- 300Mbps 802.11n MIMO technology
- 802.11n Wi-Fi AP and AP-Client mode
- Up to 30fps network screen projection
- SidePad manages projection via iOS/Android device
- Web Slides allow audience to view the slides from web browser
- USB over IP for touch screen and IWB
- Multiple users access in standby and conference modes

High-Definition
Wireless Projector

Projector

802.11b/g/n Wi-Fi

Laptop

WIPG-300H

Wireless Interactive Presentation Gateway

Video
Audio
Photo
Presentation

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

Outdoor Wireless LAN Solutions

WISP Solution

Compared with the traditional ISP provider that offers wired Internet service, PLANET WISP solution provides more elastic, more effective and low-cost wireless Internet service, and no limitation of place, be it a small residence or campus.
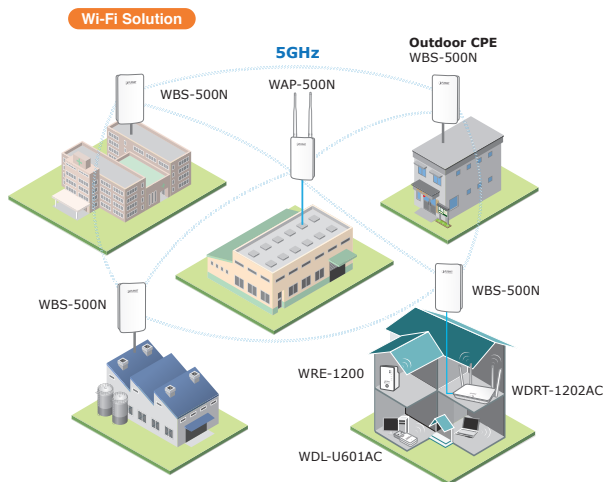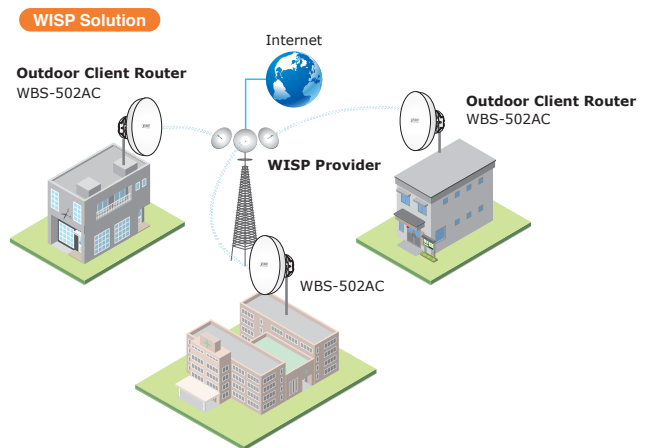
Outdoor Wi-Fi LAN Solution

It provides small and medium businesses or SOHO with wireless LAN data transmission solution. It features a wireless point to point/multiple point to multiple point bridge, general data transmission and media transmission like surveillance monitoring between buildings. It is suitable for wide-ranging connectivities.

Outdoor CPE/Client

PLANET Outdoor Wireless Solution supports multiple wireless communication connectivities (AP, Client CPE, WDS PtP, WDS PtMP, Repeater, Universal Repeater and WISP) suitable for various application requirements and thus it helps users to easily build a wireless network and extend the wireless range of the existing wireless network.
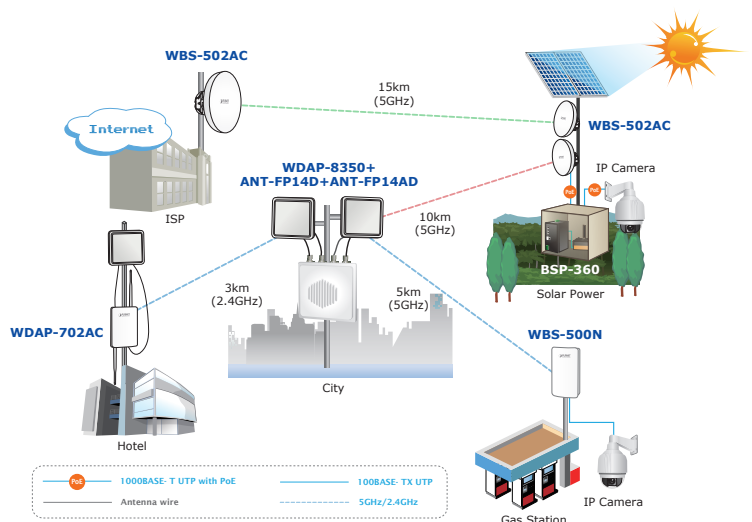
5GHz and 2.4GHz 802.11n/ac Wireless Outdoor Solutions

PLANET Outdoor Wireless Solution provides higher transmission power, longer distance, and better performance than standard outdoor wireless access points. It is equipped with various antennas and multiple adjustable transmission output power controllers which are quite suitable for longer distance and widely open space applications.

Dual-band 802.11a/b/g/n/ac Wireless Outdoor CPEs

WDAP-802AC
Dual-band 1200Mbps 802.11ac Outdoor AP

- Simultaneous 2.4GHz (Wi-Fi access) and 5GHz (backhaul) wireless network
- Gigabit wire and 1200Mbps wireless connectivity (dual-band)
- 4 built-in N-type (F) antenna connectors
- 802.1Q VLAN mapping multiple SSIDs
- Ground terminal design
- 802.3at Power over Ethernet
- Centrally managed by PLANET WAPC series and Software AP Controller

N Type | IP68 | 11ac Dual-band

WDAP-702AC
Dual-band 1200Mbps 802.11ac Outdoor AP

- Simultaneous 2.4GHz (Wi-Fi access) and 5GHz (backhaul) wireless network
- Gigabit wire and 1200Mbps wireless connectivity (dual-band)
- 4 built-in RP-SMA (F) antenna connectors
- 802.1Q VLAN mapping multiple-SSIDs
- IPv4 and IPv6 dual-stack networks
- Guest network, band-steering, fast-roaming
- Ground terminal design, IP55 protection
- 802.3at Power over Ethernet design
- Centrally managed by PLANET Hardware and Software AP Controller

RP-SMA | 11ac Wave2 | 802.11 k/r Roaming

WDAP-8350
Dual-band 600Mbps 802.11n Outdoor CPE

- Simultaneous 2.4GHz (Wi-Fi access) and 5GHz (backhaul) wireless network
- Gigabit wire and 600Mbps wireless connectivity (dual-band)
- 4 built-in N-type (F) antenna connectors
- 802.1Q VLAN mapping multiple-SSIDs
- IPv4 and IPv6 dual-stack networks
- Dual-image backup mechanism
- Ground terminal design
- 802.3at Power over Ethernet design

N Type | IP66 | Dual-N Band

5GHz 802.11a/n/ac Wireless Outdoor CPEs

WAP-552N
5GHz 300Mbps 802.11n Outdoor AP

- Built-in 2 N-type (F) antenna connectors
- AP, WDS PtP/PtMP, repeater, WISP mode
- 802.3at Power over Ethernet
- 802.1Q VLAN mapping multiple SSIDs
- Centrally managed by PLANET WAPC series and Software AP Controller

N Type | IP67

WBS-502AC
5GHz 900Mbps 802.11ac Outdoor CPE

- Built-in 19dBi dual-polarized antenna
- AP/Client, WDS PtP/PtMP, WISP modes
- High transmission output power
- UV resistance, IP55 protection
- 360-degree 3D array of mounting brackets design
- 802.3at Power over Ethernet design
- 802.1Q VLAN
- Centrally managed by PLANET WAPC series and Software AP Controller

19dBi

WBS-502N
5GHz 802.11n 300Mbps Outdoor Wireless CPE

- Built-in 15dBi dual-polarized antenna
- AP/Client, WDS PtP/PtMP, Repeater, WISP modes
- High transmission output power
- UV resistance, IP55 protection
- 802.3at Power over Ethernet
- Centrally managed by PLANET WAPC series and Software AP Controller

2.4GHz 802.11b/g/n Wireless Outdoor Solutions

WAP-252N
2.4GHz 300Mbps 802.11n Outdoor AP

- Built-in 2 N-type (F) antenna connectors
- AP, WDS PtP/PtMP, repeater, WISP mode
- IP67 rating
- 802.3at Power over Ethernet
- 802.1Q VLAN mapping multiple SSIDs
- Centrally managed by PLANET WAPC series and Software AP Controller

N Type | IP67

WBS-200N
2.4GHz 300Mbps Outdoor CPE

- Built-in 8dBi dual-polarized antenna
- AP/Client, WDS PtP/PtMP, Repeater, WISP modes
- High transmission output power
- UV resistance, IP55 protection
- Passive Power over Ethernet design
- 802.1Q VLAN
- Centrally managed by PLANET Hardware and Software AP Controller

8dBi

WBS-202N
2.4GHz 802.11n 300Mbps Outdoor Wireless CPE

- Built-in 14dBi dual-polarized antenna
- AP/Client, WDS PtP/PtMP, Repeater, WISP modes
- High transmission output power
- UV resistance, IP55 protection
- Passive Power over Ethernet design
- 802.1Q VLAN
- 802.3at Power over Ethernet
- Centrally managed by PLANET Hardware and Software AP Controller

14dBi

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Flexible Deployment with Various Antennas

AP with Omni Antenna	WDS (PtP) with Panel Antenna	WDS (PtMP) with Sector Antenna

Laptop

Smart Phone

Portable Game Console

Smart Pad

○ AP Mode

○ WDS PtP Mode

○ WDS PtMP Mode
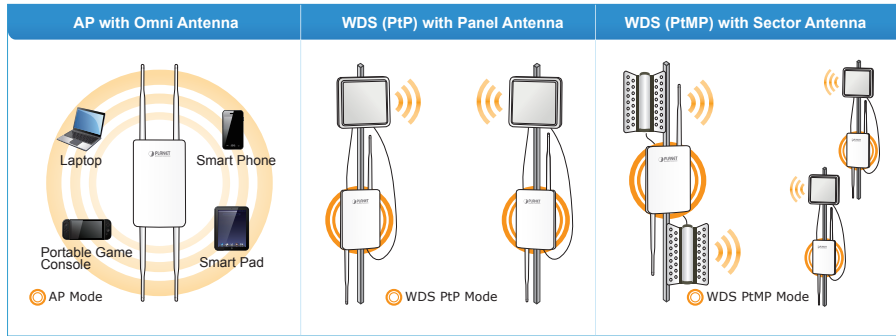
802.11n/ac Dual-band Wireless Routers

WDRT-1202AC

1200Mbps 802.11ac Wireless AP Router

- Simultaneous dual-band connectivity in 2.4GHz 300Mbps and 5GHz 867Mbps
- Built-in 5dBi high-gain antennas
- Equipped with all Gigabit RJ45 ports
- IPv6/IPv4 dual stack capability
- One USB 2.0 port with file sharing and DLNA supported
- Supports guest network
- Supports L2TP over IPSec VPN

5dBi **IPv6**

2.4GHz 802.11b/g/n Wireless AP Routers

VDR-301N

300Mbps 802.11n Wireless VDSL2 Router

- Built-in VDSL2 with G. vectoring technology
- Multiple WAN connections and ADSL+ fallback
- IPv6/IPv4 dual stack capability
- TR069 compliant DLNA media server
- PLANET DDNS supported
- Supports L2TP VPN

VDSL2 ADSL+

WNRT-300

150Mbps 802.11n Wireless Portable Router

- Hardware switchable operation modes: Router/AP/Client
- Built-in rechargeable li-ion battery
- Easy setup wizard
- Portable and pocket-sized design for true mobility

FRT-415N

300Mbps 802.11n Wireless Fiber Router

- 100/100Mbps upstream and downstream fiber port for long-distance WAN connection
- 2~60km flexible distance deployment via 100BASE-FX SFP fiber interface
- Multiple WAN Connections
- Built-in 5dBi high-gain antennas
- IPv6 supported for new services and higher security
- IGMP proxy and IGMP snooping for IPTV applications

100FX

Wireless Range Extenders

- IEEE 802.11b/g/n/ac standard compliant
- High-speed wireless data rate
- Multiple operation modes: AP/Repeater/WDS PtP/WDS PtMP
- Advanced wireless security
- Support user-friendly Web management

WRE-1200

1200Mbps 802.11ac Wireless Range Extender

- Simultaneous dual-band connectivity in 2.4GHz 300Mbps and 5GHz 867Mbps
- Gigabit Ethernet port and mode switch button
- One-touch Wi-Fi Protected Setup (WPS)
- Hardware modes: AP/Repeater/Client
- Built-in electrical power socket, wall plug design

Wall Plug **Dual Band 2.4G 5G**

WDL-U601AC

433Mbps 802.11ac Dual-band USB Adapter

- 433Mbps 802.11ac MIMO technology
- Selectable dual band provides more flexible connection
- USB 2.0/1.1 attached interface in tiny size and portable design
- Easy to encrypt with the WPS button
- Supports WEP 64/128, WPA, WPA-PSK, WPA2, WPA2-PSK (TKIP/AES encryption)
- Supports QoS-WMM (Wi-Fi Multi-media) function/WMM-PS
- Supports software AP mode
- Supports the most popular operating systems including Windows XP, Vista, Win 7, Win 8, Linux, and MAC OS X ready

433 Mbps

Vehicle 4G LTE Cellular Wireless Gateway

VCG-1500WG-LTE

Vehicle 4G LTE Cellular Wireless Gateway with
5-Port 10/100TX

- 4 10/100TX LAN ports and 1 10/100TX WAN port
- Industrial power with wide DC voltage power supply design
- One SIM slot and one 4G LTE antenna for network connection
- Supports Wi-Fi 802.11 b/g/n for mobile client connectivity
- GPS antenna allows to detect the location via sat nav system
- Supports GRE, PPTP, IPSec and L2TP
- Supports NAT, DMZ, MAC/Application/IP filter and static routing
- Supports DHCP server/client, PPPoE, static IP and DDNS
- -25 to 65 degrees C operating temperature
- Supports CMS and SNMP for remote management

4G LTE | GPS | Wireless AP | IoV

Wireless Home and SOHO Applications

PLANET makes your home networking easier and more compact with 802.11ac solution. Simply install an 802.11ac compatible wireless router, WDRT-1202AC, in the house, and its wide coverage and stable quality will definitely offer you a seamless and impressive wireless roaming experience. From now on, you can surf the web, enjoy multimedia streaming, share files, and make VoIP calls wirelessly without any limitation.

A

B

C

A — WDRT-1202AC
1200Mbps 802.11ac Dual Band
Wireless Gigabit Router

B — WRE-1200
1200Mbps 802.11ac Dual Band
Range Extender

C — ICA-W7100
720P Wireless IR PT IP Camera

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

Wireless Antennas and Cable Accessories

To commit the wireless long-distance connectivity, PLANET Wireless LAN Solution also provides a variety of Antennas, Cables and other Accessories for 2.4GHz and 5GHz band applications where more RF gain power is required to increase the convergence of the installations wirelessly.

The antennas include unidirectional antenna and omni-directional antenna to meet the need of different environments. The omni-directional antenna is ideal to install in a central base-station in a point to multi-point wireless application, and unidirectional antennas are designed for long distance.

To keep the wireless device free from lightning induced surges that travel on the coaxial transmission lines, PLANET also provides the arrestor guarding the wireless equipment from damage that could cause your previous network resources to break down.

5GHz Antennas

ANT-OM5D
Dual Band Omni-directional Antenna 4/7dBi

2.4G Antennas

ANT-OM8
8dBi Omni-directional Antenna

ANT-OM15
15dBi Omni-directional Antenna

ANT-FP18
18dBi Flat Panel Directional Antenna

ANT-OM9 (Indoor)
9dBi Omni-directional Antenna

ANT-FP14D
14dBi Flat Panel Dual Polarization Antenna

5GHz Antennas

ANT-OM10A
10dBi Omni-directional Antenna

ANT-FP18A
18dBi Flat Panel Antenna

ANT-FP14AD
14dBi Flat Panel Dual Polarization Antenna

ANT-SE17A
17dBi Sector Antenna

Accessories

WL-NM-0.6
0.6m N-male (male pin) to N-male (male pin) Cable

WL-LTNA
2.4/5GHz Lightning Arrester (N-male to N-female)

WL-MMC
0.3m R-MMCX(F) to R-SMA(M) Cable

WL-MF-0.6
0.6m N-male (male pin) to N-female (female pin) Extension Cable

WL-N-0.6
0.6m N-male (female pin) to N-male (male pin) Cable

WL-SMA-0.6
0.6m Reverse SMA (female) to N-male (male pin) Cable

WL-SMA-6
6m Reverse SMA (female) to N-male (male pin) Cable

WL-NM-0.6

WL-LTNA

WL-SMA-0.6

▶ NVR-3685

H.265 / H.264 **E-Map** **RAID 0/1/5** **E-SATA**

H.264+ 36-ch NVR with 8-bay Hard Disks

Save More Bandwidth and Storage Space via H.264+ Technology

Ideal Solution for High Image Quality

ICA-M3380P

H.264+ 3MP Bullet IP Camera

- 1/2.8" Sony Exmor progressive CMOS image sensor
- 2.8~12mm lens with wide angle surveillance
- Max. resolution 2048 x 1536 at 30fps
- 25M smart IR LED
- IP66-rated housing
- IEEE 802.3af standard PoE Interface

ICA-M4320P

H.264+ 3MP Dome IP Camera

- 1/2.8" Sony Exmor progressive CMOS image sensor
- 2.8~12mm lens with wide angle surveillance
- Max. resolution 2048 x 1536 at 30fps
- 20M IR LED
- Built-in PIR sensor for motion detection
- IEEE 802.3af standard PoE Interface

NVR-3685

H.264+ 36-ch NVR with 8-bay Hard Disks

- Supports VGA / HDMI dual local display
- Supports 8 SATA HDDs, up to 6TB per HDD
- Supports H.265 / H.264 compression
- Supports RAID 0/1/5
- Location management with eMap
- Supports mobile phone remote view

High Frame Rate (60fps) for Real-time Surveillance Applications

PLANET Exmor IP Camera Series with Zero-lux Illuminator is a high-resolution camera for the round-the-clock surveillance over IP networks. It supports H.264 and MJPEG compression formats and delivers excellent picture quality in Full HD resolutions at 60 frames per second (fps). Incorporating the new Exmor RS™ CMOS image sensor, it provides high-quality images under all lighting conditions.

Full Surveillance with 360º Panoramic Surround View

PLANET Fisheye IP Camera Series allows you to monitor all angles of a location using just one camera. Without installing any software, you can watch live view and utilize functions such as motion detection and camera tampering through the Web interface using a web browser. Distortion correction feature of the ICA-8500 can fix the camera video so you can use e-PTZ to zoom in, zoom out, and pan across your camera's video to survey a large area easily.

Efficiently Remote Monitoring of IP Cameras

PLANET IP Surveillance Solution provides multiple ways for users to remotely monitor all IP cameras more efficiently, such as user-friendly website management, apps for smart-phones and pads, and free DDNS services. It is quick to easily access your PLANET IP surveillance camera over both mobile phone and Wi-Fi network anytime, anywhere.

Cloud Services Make Access Easy Anywhere

To make home monitoring a truly simple experience, we have created Cloud App to enable you to access live video feeds of your home or office from any Internet-connected computer, iPhone®, iPad®, or Android® device anytime, anywhere. The Cloud Cameras can be viewed and managed on your personal account via Cloud App to enable you to enjoy the freedom of remote monitoring on your terms.

Network
Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband
Communication

Wireless LAN

IP Surveillance

IP Telephony

Network
Security

Network
Peripheral

Home
Automation

Extended Surveillance

PLANET E-series of IP cameras are able to provide advanced applications with specific software such as monitoring, video analyzing and vehicle license plate recognition. Through the NVR-E6480, it can help users monitor and record images/videos from multiple cameras simultaneously and able to operate up to 64 channels with advanced features such as event management and recording, tri-display monitoring, smart motion detection, PTZ control and e-Map. The CV7-VA is a software of video analytics that is designed to transform your video surveillance network into a smart detection system. The software provides Enter Area, People Counting, Missing Object, Line Crossing, Unattended Object and Tamper functions. Once a suspicious activity is detected, users can play back to watch these events and use them as references or evidences if needed. Moreover, the CV7-LP is a software of video analytics that is designed to detect and recognize vehicle license plates. This software is able to automatically locate and read license plates appearing in a certain area, and match this data against the database. It provides efficiency in parking and traffic control, as well as law enforcement.

IP Cameras

ICA-E6260

- 33x optical zooming, endless pan & tilt
- Max. frame rate 60fps at 1080p
- Weatherproof (IP67), vandalproof (IK09)
- Superior low light sensitivity
- WDR enhancement , 3D noise reduction
- Built-in microSD card slot for on-board storage
- Built-in PTZ auto tracking and enhanced intelligent video application

ICA-E5550V

- 2.8~12mm vari-focal, fixed iris lens
- Maximum resolution 2592 x 1944 (15fps)
- 30-meter IR LEDs with ICR
- WDR, 3DNR, IPv6, ONVIF, micro SD
- IK10, IP66
- Supports management, IVS and ALPR software

ICA-E3550V

- 2.8~12mm vari-focal, fixed iris lens
- Maximum resolution 2592 x 1944 (15fps)
- 30-meter IR LEDs with ICR
- WDR, 3DNR, IPv6, ONVIF, micro SD
- IK10, IP68
- Supports management, IVS and ALPR software

ICA-E6265

- 36x optical zooming, endless pan & tilt
- Max. frame rate 60fps at 1080p
- Long distance adaptive IR LEDs
- Superior low light sensitivity
- WDR enhancement , 3D noise reduction
- Water-repellent and scratch-resistant lens glass
- Built-in PTZ auto tracking and enhanced intelligent video application

ICA-E8550

- 1.19mm fisheye lens for 180° and 360° panoramic wide angle view
- ePTZ for data efficiency
- ICR, WDR and 3D noise reduction
- Built-in IR illuminators, effective up to 15 meters
- Built-in microSD card slot for on-board storage
- Vandalproof (IK10) and weatherproof (IP68)
- EN50155 compliance for professional mobile surveillance

NVR

NVR-E6480

- Manages up to 64 cameras
- 8-bay rackmount (2U) with software RAID (0,1)
- Instant playback in live view window
- Location-based management with eMap
- Supports dual stream management
- Remote access via mobile app, Web browser or CMS

CMS

CV7-M64

- Central management for NVR and camera
- Supports live view up to 64 channels
- Exports video with RAW and AVI formats
- Event trigger, response and notification
- Supports dual stream management
- Mobile client, Web client, workstation
- Location-based management with eMap

CV7-M64

Managed Software

Automatic License Plate Recognition

CV7-LP2/4

- Concurrent analysis of up to 2/4 channels
- One region of interest per channel
- Searching and filtering based on time and plate number
- Convenient plate numbering searching
- Analysis for live and pre-recorded videos

License Plate of Country

Austria/Australia/Bulgaria/Canada/Costa Rica/Czech Republic/ Dubai/Ecuador/Europe Region/Georgia/Germany/Greece/ Guatemala/Hong Kong/Hungary/Indonesia/Ireland/Italy/Japan/ Jordan/Kuwait/Laos/Malaysia/Malta/Mongolia/New Zealand/ Oman/Poland/Romania/Russia/Saudi Arabia/Slovakia/South Korea/Spain/Taiwan/Thailand/UK/Ukraine/US/Vietnam

Intelligent Video Analysis

Line Crossing

Enter Area

Unattended Object

Object Counting

People Counting

Camera Tampering
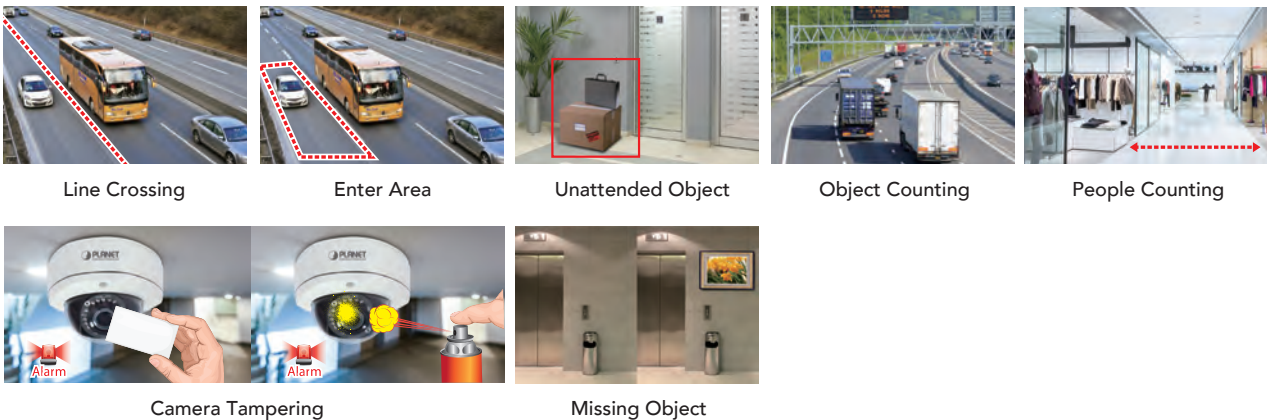
Missing Object

CV7-VA4/9

- Concurrent analysis of up to 4/9 channels
- Supports enter area, people counting, missing object, line crossing, unattended object and tamper functions
- Event search and filtering based on time, algorithm and object color
- Play back captured events
- Exports videos of captured events
- Analysis for live and pre-recorded videos

Video Management System

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Reduce Bandwidth and Storage Usages by up to 50%

H.264+ HEVC (High Efficiency Video Coding)

H.264 Mbps

H.264+ Mbps
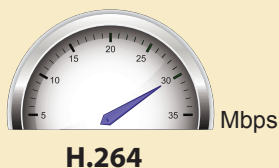
H.264+ Surveillance

PLANET H.264+ Series of IP Cameras can perform in various surveillance applications. With high-resolution design, it can capture clear images and is perfect for identifying objects and persons. Moreover, it supports 802.3af PoE interface, and facilitates the indoor surveillance applications without worrying the electric source. Besides, NVR and Web UI management make you easy to do the configuration and live viewing. With so many features offered, PLANET H.264+ Series of IP Cameras no doubt is your best choice for indoor surveillance solution.

IP Cameras

ICA-M3380P

- 1/2.8" Sony Exmor progressive CMOS image sensor
- 2.8~12mm lens with wide angle surveillance
- Max. resolution 2048 x 1536 at 30fps
- 25M smart IR LED
- IP66-rated housing
- IEEE 802.3af standard PoE interface

ICA-M4320P

- 1/2.8" Sony Exmor progressive CMOS image sensor
- 2.8~12mm lens with wide angle surveillance
- Max. resolution 2048 x 1536 at 30fps
- 20M IR LED
- Built-in PIR sensor for motion detection
- IEEE 802.3af standard PoE interface

NVR

NVR-3685

- Supports VGA/HDMI dual local display
- Supports 8 SATA HDDs, up to 6TB per HDD
- Supports H.264+/H.264 compression
- Supports RAID 0/1/5
- Location management with eMap
- Supports mobile phone remote view

PLANET Surveillance Apps for Remotely Monitoring and Control

Apple Store

Google play

CV5

Exmor RS IP Cameras

ICA-4210P

- Sony Exmor RS progressive CMOS sensor
- Maximum resolution 1920 x 1080 (60fps)
- 20-meter IR LEDs with ICR
- Smart Focus and Zoom
- True WDR™, super low lux@0.01
- Intelligent-inside, 3DNR, IPv6

ICA-HM620

- Sony Exmor progressive CMOS sensor
- 4.7~94mm vari-focal, auto-iris lens
- 20X optical, 8X digital zoom
- Maximum resolution 1920 x 1080 (30fps)/1280 x 720 (60fps)
- WDR, 3DNR, IP66, PoE+

High Frame Rate (60fps) for Real-time Surveillance Applications

V.S

15fps | 60fps

Super Low Lux for Day & Night

True WDR

V.S

Taken by IP camera without WDR | Taken by PLANET IP camera with True WDR

Exmor RS CMOS Sensor

Taken by other brands | Taken by PLANET IP camera

Smart Focus with P-Iris

Blurred | Auto Focus | Clear

Face Detection and Cross Line Detection

Face Detection | Cross Line Detection

ICA-3250

- 3.6mm lens with 74 degrees angle view
- Maximum resolution 1920 x 1080 (30fps)
- 20-meter IR LEDs with ICR
- WDR, 2DNR, IP66

ICA-4250

- 3.6mm lens with 74 degrees angle view
- Maximum resolution 1920 x 1080 (30fps)
- 25-meter IR LEDs with ICR
- WDR, 2DNR, IP66
- Cable management

ICA-2250VT

- Sony Exmor progressive CMOS sensor
- 3.1~8mm vari-focal, auto-iris lens
- Maximum resolution 1920 x 1080 (30fps)
- WDR, ICR, 3DNR, IP66, PoE+, cable management
- Industrial design with -40 to 75 degrees C operating temperature

Fisheye IP Cameras

- 360° fisheye panoramic wide angle view
- Simultaneous multi-stream support
- Compliant with IEEE 802.3af PoE interface for flexible deployment
- Removable IR-cut Filter for Day & Night function
- 2-way audio function
- Digital Input and Output for integration with sensors and alarms

ICA-W8100

- 0.89mm fisheye lens
- Maximum resolution 1280 x 720 (30fps)
- IEEE 802.11n wireless LAN compliant
- WPS, PIR for thermal, motion detection

720P HD · **PIR**

ICA-W8500

- Equipped with 2659 x 1944 pixel 5MP CMOS sensor
- 1.05mm fisheye lens
- Maximum resolution 1920 x 1920 (15fps)
- WDR, 2DNR, ONVIF
- Supports advanced e-PTZ function
- IEEE 802.11n wireless LAN compliant

TAIWAN EXCELLENCE 2015

5MP · **802.11n N**

IP Cameras

- IEEE 802.3af standard PoE interface
- ONVIF compliant
- 3DNR to improve picture quality at low lux
- Supports both IPv6 and IPv4
- PLANET DDNS and easy DDNS
- Micro SD card for local storage
- WDR Enhancement function strengthens visibility under extremely bright or dark environments
- Easily-recessed mount design
- Convenient nano-design blends in nicely with any surrounding

ICA-W7100

- 3.6mm board lens
- Maximum resolution 1280 x 720 (30fps)
- 10-meter IR LEDs with ICR
- WDR, 2DNR
- Pan and tilt (Pan: 0° ~ 355°; Tilt: 0° ~ 90°)
- IEEE 802.11n wireless LAN compliant

720P HD · **802.11n N**

SIP IP Camera

ICA-4130S

- SIP 2.0 (RFC 3261) compliant
- 3.6mm board lens
- Maximum resolution 1280 x 960 (30fps)
- Tamper detection for unauthorized changes
- Supports advanced e-PTZ function

720P HD · **SIP**

SIP IP Camera ICA-4130S

SIP

Video Phone

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

Network Video Recorders

To save the total cost of ownership (TCO), PLANET provides the alternative way to store all the videos and audios from the IP camera and the NVR. The NVR product family includes 8-ch, 9-ch and 16-ch capability that can record 16 IP cameras that are connected on the IP network whether they are wired or wireless and indoors or outdoors.

- Simultaneous recording and live video streams
- Supports MJPEG, MPEG-4 and H.264 compressions
- Mobile devices remote monitoring
- Auto configuration for PLANET IP camera
- Easy access with PLANET Dynamic DNS
- Manual or schedule recording of 8/9/16 IP cameras simultaneously
- ONVIF compliant

- Video recycle function keeps the video recording 24/7
- Web-based and management utility for easy configuration
- 2-way audio function
- E-Map interface in web and utility configuration
- Exports recorded video file to AVI format
- Multiple Languages support

NVR-820

- Records 240fps @1920 x 1080
- Maximum bitrate 55Mbps
- 2 x SATA HDD
- HDMI and VGA dual local display
- Intelligent, Google e-Map, and multi-brand IP CAM support

NVR-915

- H.264 compression
- Records 270fps @1920 x 1080
- Maximum bitrate 48Mbps
- 2 x SATA HDD with e-SATA
- HDMI and VGA local display

NVR-1615

- H.264 compression
- Records 480fps @1920 x 1080
- Maximum bitrate 80Mbps
- 2 x SATA HDD with e-SATA
- HDMI and VGA local display

H.265 NVR

NVR-3685

- Supports VGA/HDMI dual local display
- Supports 8 SATA HDDs, up to 6TB per HDD
- Supports H.265/H.264 compression
- Supports RAID 0/1/5
- Location management with eMap
- Supports mobile phone remote view

Windows-based NVR

NVR-E6480

- Manages up to 64 cameras
- 8-bay rackmount (2U) with software RAID (0,1)
- Instant playback in live view window
- Location management with eMap
- Supports dual stream management
- Remote access via mobile app, Web browser or CMS

PLANET NVR-3685, Advanced H.265 IP Surveillance Solution

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Hybrid Digital Video Recorders

- Embedded, highly-reliable standalone HDVR
- Supports hybrid mode for combination of IP, AHD and analog cameras
- Supports H.264 compression
- Supports RS485 for PTZ control
- 2-way audio support with enhanced audio quality

- Video recycling function records events 24/7
- ONVIF compliant for interoperability
- Up to 256 channels with the central management software
- Supports two USB2.0 ports for mouse control and backup
- Supports mobile phone remote viewer, Web UI and CMS

HDVR-430
- Records 60fps @1280 x 720
- Maximum bitrate 20Mbps
- 4-ch BNC connectors and 1 x SATA HDD
- 1280 x 720 HDMI and VGA local display

HDVR-830
- Records 60fps @1280 x 720
- Maximum bitrate 20Mbps
- 8-ch BNC connectors and 1 x SATA HDD
- 1280 x 720 HDMI and VGA local display

HDVR-1630
- Records 60fps @1920 x 1080
- Maximum bitrate 60Mbps
- 16-ch BNC connectors and 1 x SATA HDD
- 1920 x 1080 HDMI and VGA local display

AHD Cameras

Model	CAM-AHD325	CAM-AHD425
Product Image	*Sony Sensor* **4-in-1**	*Sony Sensor* **4-in-1**
Resolution	AHD 1080p	AHD 1080p
Sensitivity	0 lux with built-in IR LED	0 lux with built-in IR LED
Sensor	1/2.8"Sony CMOS sensor	1/2.8" Sony CMOS sensor
Lens	3.6mm/F1.2	3.6mm/F1.2
IR Distance	30 meters	20 meters
WDR	D-WDR	D-WDR
Day and Night	IRC switch	IRC switch
Digital Noise Reduction	2DNR/3DNR	2DNR/3DNR
Protection Class	IP66	IP65

Integrated HD VoIP Solution
for Businesses and Homes

- **Easy integration with IETF SIP Protocol**
- **Asterisk-based IP PBX**
- **User-friendly Color IP Phone**
- **IP-based Audio Broadcasting**

SIP IP Intercoms

Indoor Touch Screen PoE Video Intercom

SIP Public Announcement Adapter

IP Telephony

HD Voice

PLANET VoIP Series features wide-band, high-definition voice for crisp, precise sound quality whether delivered via the handset, speakerphone or optional headset. All phones in the series feature wideband-compliant, and hearing aid compatible handsets along with built-in, high-quality speakers and microphones.

Conferencing Solutions

The convenient 3-way conferencing feature, available on all PLANET VoIP Series, will help you save time and resources. A paging function lets you quickly get two colleagues on the phone with you for a conference even if they're located at the opposite ends of the country.

Watching Live Surveillance Images via SIP IP Cameras

PLANET SIP communication solution integrated with IP PBX, IP phone and IP camera helps users to watch live surveillance view more easily just by dialing a phone number. With the motion alarm function, the SIP IP camera provides a more instant, efficient response method, better than the other methods, such as FTP, email, SD card and more, to alert users so as to prevent a bad event from happening.

Green IP Office

Green Office
(Fax to Email / Email to Fax)

IP PBX

The Fax to Email/Email to Fax service by PLANET IP PBX allows users to transfer/receive faxes directly to/from your email inbox as file attachments. It's an easy and confidential way of receiving, storing and forwarding important fax documents, thus creating a paperless green office.

Managing your Office from your Mobile Device

Users have an IP PBX phone number including an office extension number where calls ring simultaneously on their mobile device, making it easy to connect one another wherever they are. Access to people, messages and information helps mobile users deliver whether they are in or out of the office.

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

SIP IP Phones

PLANET Professional VIP Telephone series is both aesthetically appealing and highly practical, meeting whatever business requirements you need for your daily work. Advanced business telephony features, including wideband HD audio for crystal-clear conversation, HD displays and support for security standards such as TLS and SRTP, are indispensable when it comes to quality and functionality. These high-performance devices are future proofed and provide the best in wideband HD audio, ensuring crystal-clear sound quality in the on-premise or hosted PBX environment.

- IETE SIP (RFC 3261), STUN (RFC 3489)
- Power over Ethernet IEEE 802.3af/at
- Auto provisioning, TR069, VPN, VLAN, QoS
- Advanced security protection with SRTP/TLS/HTTPS
- Interoperable with all major IP PBX platforms

- Acoustic echo cancellation (AEC), adaptive jitter buffer (AJB)
- Background noise estimation (BNE)
- Comfort noise generation (CNG), noise reduction (NR)
- Packet loss concealment (PLC), voice activity detection (VAD)
- Audio codecs: G.711 A-law, µ-law, G.722 (wideband), G.723, G.726 and G.729AB

VIP-1120PT

- 2.4-inch color LCD monitor
- 2 identities/accounts with color LED
- Wideband G.722 HD audio with handset and hands-free

VIP-2140PT

- 2.8-inch main color LCD monitor
- 2.4-inch (DSS) key-mapping LCD monitor
- 4 identities/accounts with color LED
- 30 configurable and 6 multicolored LED keys
- Wideband G.722 HD audio with handset and hands-free
- Dual 10/100/1000 Gigabit Ethernet

VTS-700P

- Stylish 7-inch Touch Screen IP Intercom
- Power over Ethernet IEEE 802.3af/at
- Hands-free two-way video Intercom; unlock door from the intercom
- Up to 3 scenes managed via PLANET Z-Wave Plus™ Gateway
- 8-zone alarm interface available for security control (DI x 6 + DO x 2)
- Standard SIP compatible with most modern IP Intercom systems
- Real-time image monitoring of home and community public cameras

VIP-8030NT

- 128 x 64 pixel LCD with blue backlight
- 3 identities/accounts with color LED
- Wideband G.722 HD audio with handset and hands-free
- VoIP / PSTN line dialing
- Extra microphone connection for wider reception

ICF-1800

- Built-in Android 4.2 OS multimedia conferencing phone
- 7-inch TFT color multi touch screen
- 6 identities/accounts
- Wideband G.722 HD audio with handset and hands-free
- Dual 10/100/1000 Gigabit Ethernet
- Tillable 2 megapixel CMOS camera, HDMI, micro SD

An Intuitive Dual Color Display and Easy-to-use Interface
High Definition Color PoE IP Phone with Dual Display ▶ VIP-2140PT

Network
Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband
Communication

Wireless LAN

IP Surveillance

IP Telephony

Network
Security

Network
Peripheral

Home
Automation

SIP Door Phones

PLANET SIP Door Phone series is the ideal solution for communication in general-purpose outdoor and indoor environments. Its sleek and fast-to-install features are combined with advanced technology. It provides visitor communication monitoring and access control. One glance at the display panel will let you know who is standing outside your door. Then, you start a dialogue or open the door lock. In addition, with PLANET IP PBX or Z-Wave Plus Gateway, you can obtain a comprehensive system for door communication or easy integration into an existing home automation system.

- IETE SIP (RFC 3261), STUN (RFC 3489)
- Power over Ethernet IEEE 802.3af/at
- ONVIF compliant for interoperability
- Auto provisioning, TR069, VPN, VLAN, QoS

- Advanced security protection with SRTP/TLS/HTTPS
- Interoperable with all major IP PBX platforms
- AEC, AJB, BNE, CNG, NR, PLC, VAD
- Audio codecs: G.711 A-law, µ-law, G.722 (wideband), G.723, G.726 and G.729AB

HDP-1100PT

- 720p HD camera with 6 white LEDs
- Wideband G.722 HD audio
- Trouble-free installation
- App and control pad alerts for any situation

HDP-5240PT

- 720p HD camera with viewing angle: 110°, 95°
- Wideband G.722 HD audio
- Trouble-free installation
- IP65 for eaves environment
- -20 to 60 degrees C operating temperature
- Unlock the door with an RFID, remote DTMF or local password

HDP-5260PT

- 720p HD camera with 3 IR LEDs
- Wideband G.722 HD audio
- Anti-vandal solution
- IP65 and IK10 for rigorous environment
- -40 to 70 degrees C operating temperature
- Unlock the door with an RFID, remote DTMF or local password

ATA & IP Paging

PLANET ATAs and IP Paging convert analog telephones and existing analog public announcement into SIP-based voice communication solutions. It supports service providers and enterprises to enhance the traditional telephony communication and extend their existing public announcement speaker service via the existing broadband connection to the Internet or corporate network. Use of PLANET's proven SIP stack enables wide compatibility with all SIP platforms.

VIP-156PE

- IETE SIP (RFC 3261), STUN (RFC 3489)
- Power over Ethernet IEEE 802.3af/at
- Up to 5 proxy server registrations
- Peer-to-Peer/SIP proxy (IP PBX) calls
- T.38 fax transmission over IP network
- Interoperable with all major IP PBX platforms
- Auto provisioning, TR069, VPN, VLAN and QoS

VIP-157S

- IETE SIP (RFC 3261), STUN (RFC 3489)
- Up to 2 concurrent VoIP calls
- Up to 5 proxy server registrations
- Peer-to-Peer/SIP proxy (IP PBX) calls
- T.38 fax transmission over IP network
- Interoperable with all major IP PBX platforms
- Auto provisioning, TR069, VPN, VLAN and QoS

VPA-100

- IETE SIP (RFC 3261), STUN (RFC 3489)
- Power over Ethernet IEEE 802.3af/at
- Broadcasting announcements over 4 ohm speakers
- 4 digital output ports to turn on/off alarm for security control
- Acoustic echo cancellation and noise suppression
- Interoperable with all major IP PBX platforms
- Auto provisioning, TR069, VPN, VLAN and QoS

VoIP System with Broadcast Function for any Public Place

IP PBXs

Small and medium businesses require specialized features to support their workflows. PLANET IP PBX is designed specifically for small and medium businesses. It combines an IP PBX with robust telephony features that traditional phone systems can't deliver. PLANET IP PBX is affordable, reliable, full-featured, and easy to deploy, administer, and maintain. It helps small and medium businesses dramatically reduce communications and network management costs, enhance collaboration, improve productivity, and more.

- IETE SIP (RFC 3261), STUN (RFC 3489)
- Automatic recording/One touch recording
- Multi-language, CDR and multi-layer IVR
- Intercom, paging and video call
- Call forward, transfer follow me and DND

- Ring/pick-up groups, and smart DID
- Virtual fax, voicemail to email and fax to email
- Auto provisioning, TR069, VPN, VLAN, QoS
- Advanced security protection with SRTP/TLS/HTTPS
- Audio codecs: G.711 A-law, μ-law, G.722 (wideband), G.723, G.726 and G.729AB.

IPX-330

- 15 concurrent calls and up to 30 registers
- 10 concurrent calls and up to 3 conference rooms
- Recording/Voicemail up to 600 hours
- Built-in 2 FXO interfaces

IPX-2100

- 30 concurrent calls and up to 100 registers
- 30 concurrent calls and up to 12 conference rooms
- Recording/Voicemail up to 600 hours
- 2 slots for maximum 8 ports for FXO/GSM

IPX-2200

- 60 concurrent calls and up to 200 registers
- 36 concurrent calls and up to 40 conference rooms
- Recording/Voicemail up to 1,500 hours
- 2 slots for maximum 8 ports for FXO/GSM
- 10/100/1000 Gigabit Ethernet

IPX-2500

- 100 concurrent calls and up to 500 registers
- 36 concurrent calls and up to 80 conference rooms
- Recording/Voicemail up to 75,000 hours
- 2 slots for maximum 8 ports for FXO/GSM
- Built-in HDD storage, Gigabit Ethernet

IPX-21SL/IPX-21FO

- 4 standard two-wire, RJ11 interfaces
- Up to 4 ports for 4 POTS lines (IPX-21FO)
- Up to 4 ports for 2 POTS lines and 2 FXS connect to analog phone set (IPX-21SL)
- Loop start signaling for advanced features: caller ID and distinctive ring

For IPX-2500 / IPX-2200 / IPX-2100

IPX-21GS

- Quad-band EGSM 850/900/1800/1900 MHz for worldwide GSM compatibility and deployments
- Up to 4 ports for 4 GSM lines
- GSM protocol stack for voice and SMS
- Loop start signaling for advanced features: caller ID and distinctive ring

For IPX-2500 / IPX-2200 / IPX-2100

High Performance **Asterisk-based** IP PBX

30 user registrations ▶ IPX-330 — SOHO (30 people)

100 user registrations ▶ IPX-2100 — SMB (100 people)

200 user registrations ▶ IPX-2200 — SME (200 people)

500 user registrations ▶ IPX-2500 — Enterprise (500 people)

Unified Office Gateway

UMG-1000

- 30 concurrent calls and up to 100 registers
- Built-in 4 FXO interfaces for IP PBX service
- ACL, VPN, VLAN and QoS
- Blocking DoS attack
- URL / IM / P2P blocking
- E-mail service for POP3, SMTP and IMAP
- Network storage and FTP service
- Anti-virus, Anti-spam, SPI firewall and content filter

TAIWAN EXCELLENCE 2015

Max. 100 ext

New Office System

PSTN

Support 4 PSTN

UMG-1000
Unified Office Gateway

Computer

Switch

IP Phone

Internet

Laptop

- IP PBX
- Firewall / VPN Gateway
- E-mail Server
- Fax Server
- FTP Server
- Network Storage
- Branch-to-Branch

——— 100Base- TX UTP
——— Telephone wire
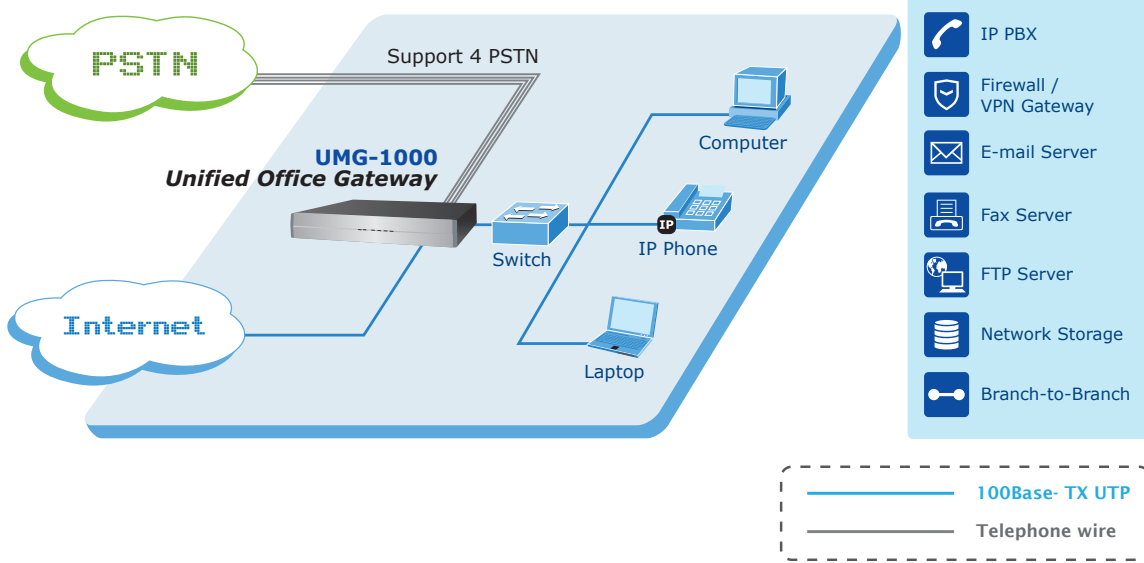
Wireless SIP Router

VIP-462DG

- Complies with IETE SIP (RFC 3261), and ETSI DECT
- Complies with IEEE 802.11b/g standards
- 2 identities/accounts with 1 FXS and 1 DECT handset
- PSTN lifeline for emergency calls
- SPI firewall and DoS protection
- QoS, VAD, CNG and dynamic jitter buffer
- Audio codecs: G.711 A-law, μ-law, G.723.1 and G.729

WVoIP SIP

Skype Gateway

SKG-300

- Auto detection and switching of incoming PSTN or Skype calls
- Three-way conferencing between PSTN and Skype calls
- PSTN call forward to Skype or Skype call forward to PSTN
- Support call waiting and full-duplex and echo-free sound quality

SIP IP Camera

ICA-4130S

- Complies with IETE SIP (RFC 3261), and ONVIF
- Power over Ethernet IEEE 802.3af/at
- Max. resolution 1280 x 960 at 30fps with H.264
- Watermark prevents video from tampering
- Motion, audio detection and disconnect alarm triggers
- Supports 3DNR, e-PTZ, multi-stream and micro SD slot

VoIP SIP **HD**

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Network Attack

Spam

Virus

Antispam · Antivirus · SPI Firewall · IDP Defense

UTM Content Security Gigabit Gateway
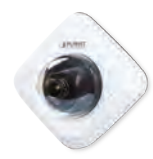
CS-950

Wireless AP Controller

Switch Co-defense

PLANET Network Security Solution

UTM Content Security Gateway — CS-950

All-in-one Security Gateway That Brings High Efficiency Network

Security
- Anti-Hacker/Malware
- Anti-Virus (Web/FTP/Mail)
- Spam Filtering
- Co-Defense
- HTTPS/SSL Encryption
- IDP/Botnet Detection

Control
- QoS
- Web Filtering
- Flow Monitoring
- App Access Control
- VPN/SSL VPN
- Network Access Auth.

Record
- Anomaly IP Analysis Log
- Firewall Protection Log
- ARP Spoofing Log
- Event Log
- Auth. Log

Network
Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband
Communication

Wireless LAN

IP Surveillance

IP Telephony

Network
Security

Network
Peripheral

Home
Automation

UTM Content Security Gateway

Wireless AP Controller

Co-defense Switch

All-in-One Network Security Solutions

PLANET CS-950 Next-Generation UTM Content Security Gigabit Gateway, an all-in-one appliance, carries several main categories across your network security deployments: firewall security protection, policy auditing (content filtering, VPN, and authentication), and easy management (CMS, up to 50 wireless AP control and flow analysis). VLAN, QoS and Outbound Load Balance can improve the network efficiency and its Web-based interface provides friendly and consistent user experience.

Excellent Ability in Threat Defense

The CS-950 adopts Clam AV for virus scanning which can detect over 800,000 kinds of viruses, worms, and Trojans. Once suspicious emails are detected, the CS-950 will modify the subject and record the mail. It also employs multi-spam filters, auto learning, and personal Blacklist/Whitelist. These help companies create their own database by importing the latest spam update.

An advanced protection of UTM, the co-defense SNMP switch can unveil on which computer or which switch port is having a problem at the earliest possible time to prevent business network from failure, and monitor network-attached devices for conditions that warrant administrative attention.

Moreover, its built-in SPI firewall and IDP functions provide DoS detection and block concealed malicious code or worms delivered in TCP/IP protocols. As soon as an attack is suspected, the CS-950 will immediately notify the IT administrator and later an extensive range of reports will be available for analysis.
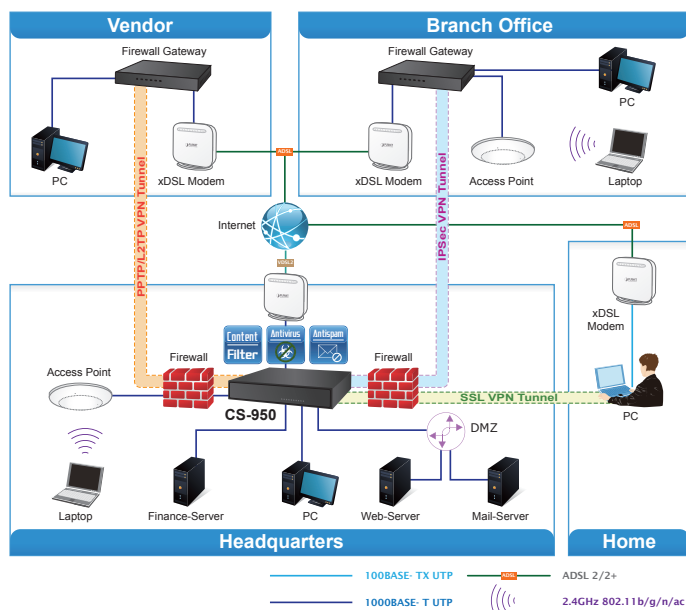
CS-950

- Anti-malware protection and application optimization
- Antivirus, Antispam, IDP, DOS/SPI Firewall and Application Control
- Content Filtering to deny access to Websites that are malicious
- IPv6, Smart QoS, and Outbound Load Balancing that increase bandwidth productivity
- Excellent SSL VPN, IPSec VPN and PPTP Server/Client connectivity
- Integrated co-defense SNMP switch and AP controller as central monitor to provide flexible deployment options

WGR-500-4PV

- 2.4-inch color LCD touch screen with management functions
- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 802.1Q VLAN and IGMP proxy
- PoE schedule, scheduled power recycling, PD alive check
- AP auto-discovery
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Rogue AP detection
- User authentication and MAC ACL
- Customized captive portal
- Profile creation and maintenance
- Online firmware detection and batch upgrade

WGR-500-4P

- 4-port 10/100/1000BASE-T with 802.3at PoE+
- 802.1Q VLAN and IGMP proxy
- PoE schedule, scheduled power recycling, PD alive check
- AP auto-discovery
- Central provisioning and cluster management
- Easy deployment with map positioning
- Real-time AP status monitoring
- Rogue AP detection
- User authentication and MAC ACL
- Customized captive portal
- Profile creation and maintenance
- Online firmware detection and batch upgrade

Broadband Routers

With the growth of the Internet activities, high-speed Internet access, on-line gaming and Triple-Play Internet applications are often seen in our daily life. To respond to the trends of Internet activities, PLANET Broadband Router is an ideal solution to provide high speed Internet access which is easy to use while surfing on the internet.

PLANET Broadband Router provides QoS features to make the network services smooth. Traffic priority can be assigned by the router to guarantee some important and specific transmissions, especially for real-time streaming multimedia applications such as on-line gaming, VoIP, and IPTV to keep the bandwidth usage running smoothly.

Via the user-friendly management interface, users can set up and configure the router very easily—just follow the wizard to guide you to the setup procedure step by step. Furthermore, the Fiber Router not only provides basic router functions such as DHCP server, Virtual Server, DMZ, and UPnP, but also provides full security functions including the SPI (Stateful Packet Inspection) firewall and NAT (Network Address Translation) features to protect your network from Internet intruders and attacks.

Fiber to the Building
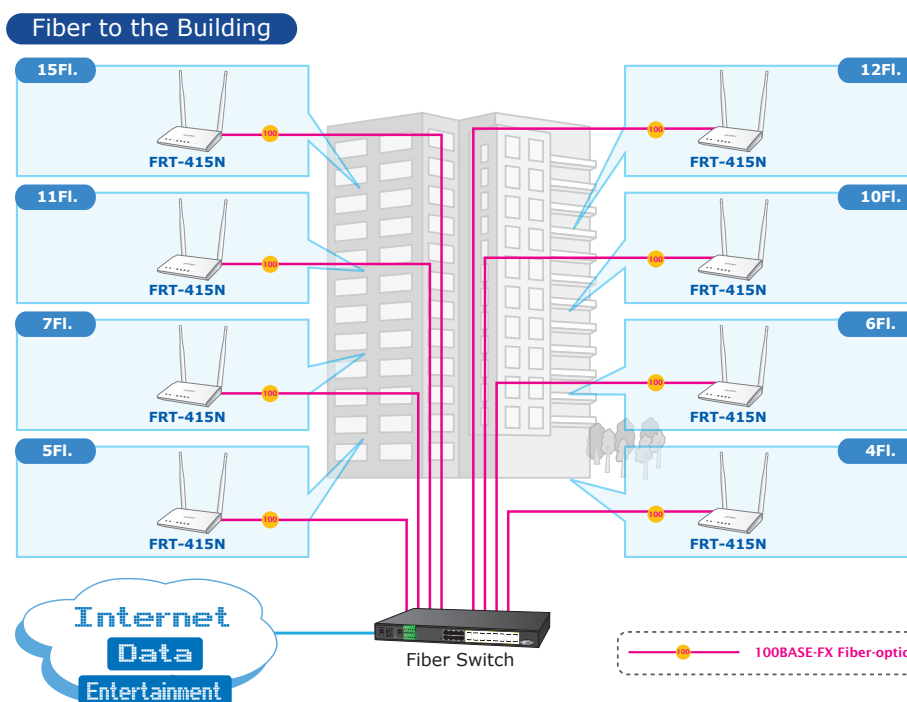
- Quick View Setting and controls up to 8/16 PCs
- Cascaded to control up to 256 PCs (max.)
- Remote IP KVM bandwidth control
- DES, AES and 3DES data encryption

All-in-One IP KVM Switch Solution for Enterprises
Remotely Access Your Servers from Anywhere

17" 8/16-Port Combo/**IP** VGA LCD KVM Switch

Stackable | Web Browser | Combo | Hot Key | SXGA 1280×1024

8/16-Port Combo/**IP** KVM Switch

Stackable | Web Browser | Combo | Hot Key | VGA Output

* Windows, iMac, Power Mac, Linux and Sun systems are supported.

IP KVM

PLANET enterprise IP KVM Switches feature the patented design of the availability of USB and PS/2 interface connection, user-friendly OSD utility and daisy-chain function. In the present computer applications, a mouse has become an indispensable device. The IP KVM fully supports various models of PS/2 mice manufactured by Logitech, Microsoft and IBM as well as compatible PS/2 mice of other brands. The IP KVM supports the PS/2 keyboard port of code set 1/2/3 and further allows you to use the IP KVM for all kinds of servers, computers or their combination.

IKVM-210-08/IKVM-210-16
8/16-Port Combo IP KVM Switch

- Remote computer control via TCP/IP protocol
- Supports PS/2 and USB compatible mouse/trackball
- Standalone machine controls up to 8/16 computers
- Cascade up to 2 levels, control up to 64/256 computers
- Supports monitor resolution of up to 2048 x 1536
- Computer selection via Port Select Button, Hotkey and On Screen Display (OSD)

IKVM-210-8M/IKVM-210-16M
8/16-Port Combo 17" VGA LCD IP KVM Switch

- Remote computer control via TCP/IP protocol
- 19-inch 1U rack mountable
- Supports PS/2 and USB compatible mouse/trackball
- Cascade up to 2 levels, control up to 64/256 computers
- Supports high resolution up to 1280 x 1024
- Computer selection via Port Select Button, Hotkey and On Screen Display (OSD)

KVM-210-8M/KVM-210-16M
8/16-Port Combo 17" VGA LCD KVM Switch

- 19-inch 1U rack mountable
- Supports PS/2 and USB compatible mouse/trackball
- Cascade up to 2 levels, control up to 64/256 computers
- Supports high resolution up to 1280 x 1024
- Computer selection via Port Select Button, Hotkey and On Screen Display (OSD)
- Multiplatform support: Windows 2000/2003/XP/Vista/7/10, Linux, Mac, and Sun

KVM-210-08/KVM-210-16
8/16-Port Combo KVM Switch

- Supports PS/2 and USB compatible mouse/trackball
- Standalone machine controls up to 8/16 computers
- Cascade up to 2 levels, control up to 64/256 computers
- Supports monitor resolution of up to 2048 x 1536
- Computer selection via Port Select Button, Hotkey and On Screen Display (OSD)
- QVS (Quick View Setting): Quickly select your computer by naming its model or serial number

Network
Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband
Communication

Wireless LAN

IP Surveillance

IP Telephony

Network
Security

Network
Peripheral

Home
Automation

IP Power Managers

With PLANET IP power management device, users can control and monitor a server room locally or remotely through the Internet. When the ESB is attached, the IPM can check the environmental condition as well; meanwhile, users can monitor the status of special environment for security and safety issue. PLANET IPM series not only monitors and manages the power consumption, but also is an ideal application for your computer power management.

IPM-4220
4-Port IP Power Manager

- Desktop size design
- 4 power outlets that can be managed
- LCD panel to display current and IP address
- Intelligent power-on sequencing
- Events notification by sending pop-up message, trap or e-mail
- Set over-current watchdog for each outlet
- IP filter to prevent unauthorized access
- Versatile sensors supported through ESB (Environmental Sensor Box)

IPM-8220
8-Port IP Power Manager

- 1U rack-mount size design
- 8 power outlets that can be managed
- LCD panel to display voltage, current and IP address
- Intelligent power-on sequencing
- Events notification by sending pop-up message, trap or e-mail
- Set over-current watchdog for each outlet
- IP filter to prevent unauthorized access
- Versatile sensors supported through ESB (Environmental Sensor Box)

IPM-ESB
Environmental Sensor Box

- Connect to Switched IPM over RJ11 cable
- Measurement range: 0 – 40°C (temperature); 0 – 95% RH (humidity)
- Off-line monitor
- Automatic events notification via E-mail and SNMP trap

IPM-16120
16-Port IP Metered PDU

- Zero U rack-mount size design
- Hot-swappable IP module without power shutdown
- Maximum IEC 16A for 16 outlets
- Events notification by sending pop-up message, trap or e-mail
- 24-hour power consumption and device temperature monitoring
- Sets over-current watchdog for power outlet

Intelligent Power Management for IPM-4220/8220

Power Control

Serial

SNMP

Web
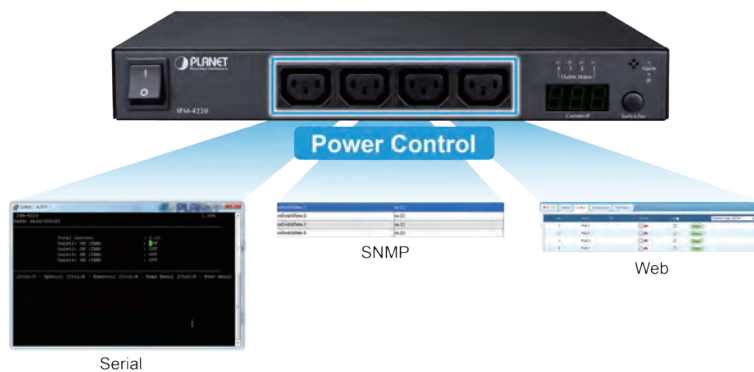
Network Attached Storage

NAS-7103

- Provides scalability up to 3TB
- 1 standard USB 2.0 port for external USB HDD
- Upload media files from iPhone or iPad to the NAS to clear up more spaces
- Supports audio files with the extensions AAC, MP3, WAV, M4A and AIFF
- Supports video files with the extensions MOV, MP4, MPV, and 3GP

dlna

Available on the App Store

NAS Viewer

iTunes UPnP Hi-Fi UPnP TV IP Camera FTP/Web DAV

Game Consoles

MediaPlayer
DMA-200

Router

Internet

TV TV

NAS-7103
Photo/Music/Video Entertainment Center

Bit Torrent

100BASE-TX UTP
1000BASE-T UTP
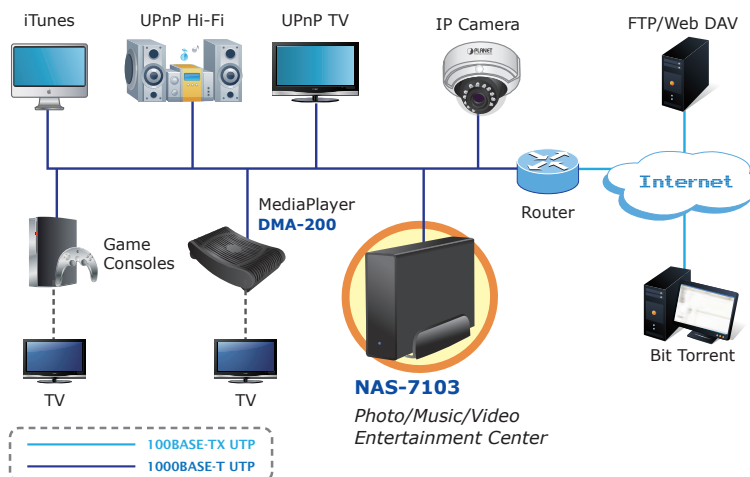
HDMI/Video Wall over IP Transmitters/Receivers

IHD-410PT/IHD-410PR

- Support 1080p or Ultra 4K (3840 x 2160) HDMI resolution with H.264
- IEEE 802.3af Standard PoE Interface
- HDCP-compliant and Blu-ray ready
- Support IR extension and Automatic EDID
- Support USB for KVM PC control
- Assign video sources to any monitors of the video wall
- 1-to-1,1-to-many and multi-casting broadcasting architectures

IHD-210PT/IHD-210PR

- Compatible with H.264 and 1080p HDTV resolution
- IEEE 802.3af Standard PoE Interface
- HDCP-compliant and Blu-ray ready
- High Compression Streaming for saving Bandwidth
- Support IR extension and Automatic EDID
- 1-to-1,1-to-many and multi-casting broadcasting architectures

Video Wall

Max. 8x16 Monitors

IHD-410PR

IHD-410PR

IHD-410PR

IHD-410PR

Gigabit PoE Switch
(with IGMP Snooping and Jumbo Frame)

IHD-410PT

Video Source

1000BASE-T UTP with PoE
HDMI Cable
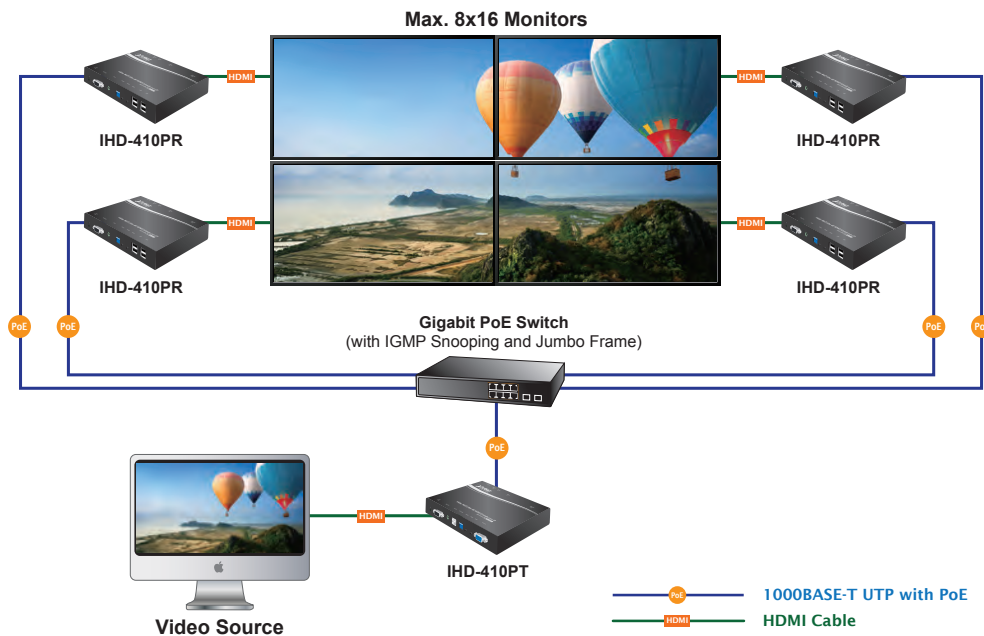
Ethernet Adapters

Model	ENW-9701	ENW-9801	ENW-9803	ENW-9720P	ENW-9740P
Product Image					
Attached Interface	PCI Express 2.0	PCI Express 2.0	PCI Express 2.0	x4 PCI Express v2.0	x4 PCI Express v2.1
Network Interface	1000BASE-X	10G BASE-SR/LR	10G BASE-T, 100/1000/2500/5000/10G Mbps	Dual Port 10/100/1000 Mbps	Quad Port 10/100/1000 Mbps
Media Interface	SFP	1 x SFP+ (SFF-8431)	RJ45	RJ45	RJ45
BootROM Socket	-	-	-	-	-
Wake on LAN	-	-	-	-	-
OS Support — Windows 10	●	●	●	●	●
OS Support — Windows 7	●	-	●	●	●
OS Support — Windows XP	●	●	●	●	●
OS Support — Windows 2008	●	●	●	●	●
OS Support — Vista	●	●	●	●	●
OS Support — Linux	●	●	●	●	●

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

Digital Media Center/IP Set-Top Box/Multimedia

PLANET Digital Media Center Solutions allow users to watch digital music videos, movies and photos on any TV at home without running wires. With elegant and easy-to-navigate menu screens, you can view family slideshows or browse your music collection by listening to entire playlists, or choosing from a vast selection of Internet TV/radio stations all over the world.

- Surfing Internet on TV easily
- Full HD (1080p) & HDMI
- Listen to digital music on your stereo system
- View digital photo, slideshow, and video on TV

- UPnP AV and DLNA compliant for maximum compatibility
- Quick access to your media contents via the remote controlled TV interface
- Stream media contents from a PC or digital device to your entertainment center

DMA-200
Digital Media Center

- Instant access video, music, and photo on USB devices via a built-in USB 2.0 connector
- Internet radio (Live 365, vTuner, etc.)
- Favorite Web TV/photo/radio station gallery
- BitTorrent downloading

ITB-3001
High Definition IP Set-Top Box

- Built-in VLC station for IPTV demo
- Built-in Flickr for photo sharing
- Broadcast TV & Time-Shift TV
- Multicast IPTV & Video-on-Demand (VoD)
- Electronic program guide and digital rights management (Available on demand with Telco head-end system)

DTR-100D
Digital TV Receiver

- Compliant with DVB-T standard
- Real-time digital video recording (MPEG-2 compression)
- HDTV quality/Snapshot in JPEG format
- Schedule recording/time-shifting
- EPG (Where available)/Teletext (Where available)
- Multi-channel preview/channel auto scan/portable receiver/subtitle
- Compliant with USB specification Rev 2.0
- Multiple languages

Powerline Ethernet Bridges

PLANET provides several types of powerline products to meet various demands on Internet access sharing at home. Users may connect an IP STB to the Powerline Adapter, or connect a PC to the Powerline Adapter in the house freely. With PLANET powerline products applied, no messy network cables and additional switches are required at home and users can entirely enjoy home broadband network from now on.

- HomePlug AV compliant
- IEEE 802.3, IEEE 802.3u, IEEE 1901 and HomePlug AV
- 128-bit AES link encryption for security and reliability
- IGMP snooping for multicast to multiple uni-cast mapping

- Quality of Service (QoS) feature
- Green technology applied
- Up to 16 Power lines
- Easy-to-use utility

PL-104U

- Fully complies with HomePlug Powerline Alliance Specification 1.0
- Data rate of up to 14Mbps within wiring of 60 meters over existing electrical wiring
- Easy to read LED indicators
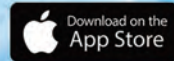
Cloud Home Automation

Enjoy a Smart, Safe and User-friendly Lifestyle

- **Smart Home Security and Monitoring**
  via Z-Wave Multi Sensors and IP Cameras

- **Data Analysis via Cloud**
  by Energy Consumption Monitoring

- **Remote Access and Hands-free Control**
  via controller at home and app away from home

Home Automation

PLANET Home Automation system keeps you safe, manages energy consumption, and provides entertainment. The system utilizes a power line and one single network to combine various household facility applications, including camera monitoring, access control, intercom, security, scene control, and value-added services to bring a comfortable, convenient, and happy new life to you.

HAC-1000

Z-Wave Home Automation Control Gateway

• Powerful home control and Z-Wave Plus™ certified
• 24-hour emergency monitoring
• Energy and cost saving by pre-defined scene modes
• Ensures entry doors are closed and locked remotely
• App and control pad alerts for any situation
• Z-Wave Frequency: America: 908.42MHz, Europe: 868.42MHz
• Hands-free control with Amazon Alexa

VTS-700P

7-inch SIP Indoor Touch Screen PoE Video Intercom

• Stylish 7-inch Touch Screen IP Intercom
• Power over Ethernet IEEE 802.3af/at
• Hands-free two-way video Intercom; unlock door from the intercom
• Up to 3 scenes managed via PLANET Z-Wave Plus™ Gateway
• 8-zone alarm interface available for security control (DI x 6 + DO x 2)
• Standard SIP compatible with most modern IP Intercom systems
• Real-time image monitoring of home and community public cameras

The possibilities are endless.
The only limitation is your imagination!

When everything at home is connected, with the touch of a finger, your home can come to life. Just reach for your smartphone and check. It only takes one swipe to do it all: change the temperature, turn off the lights, lock the doors, arm the security system, and start off to a great day. Remembering the details has never been this easy.

Cloud Home App

WGS-5225-8P2SV

Industrial L2+ 8-Port Gigabit PoE + 2-Port Gigabit SFP Wall-mount Managed Switch with LCD touch screen

• 2.4-inch color LCD touch screen with management functions
• 8-port 10/100/1000BASE-T with 802.3at PoE+
• 2-port 100/1000BASE-X SFP
• 802.1Q VLAN, MSTP and IGMP Snooping
• ERPS ring and IEEE 1588 supported
• Static route supported
• Modbus TCP
• PoE schedule, scheduled power recycling, PD alive check

ICF-1800

HD Touch Screen Android Multimedia Conferencing Phone

• Built-in Android 4.2 OS multimedia conferencing phone
• 7-inch TFT color multi touch screen
• 6 identities/accounts
• Wideband G.722 HD audio with handset and hands-free
• Dual 10/100/1000 Gigabit Ethernet
• Tillable 2 megapixel CMOS camera, HDMI, micro SD

Network Management
LAN Switches
Industrial Ethernet
Power over Ethernet
Media Conversion
Broadband Communication
Wireless LAN
IP Surveillance
IP Telephony
Network Security
Network Peripheral
Home Automation

SIP Door Phones

PLANET SIP Door Phone series is the ideal solution for communication in general-purpose outdoor and indoor environments. Its sleek and fast-to-install features are combined with advanced technology. It provides visitor communication monitoring and access control. One glance at the display panel will let you know who is standing outside your door. You start a dialogue or open the door lock. In addition, with PLANET IP PBX or Z-Wave Plus Gateway, you can obtain a comprehensive system for door communication or easy integration into an existing home automation system.

- IETE SIP (RFC 3261), STUN (RFC 3489)
- Power over Ethernet IEEE 802.3af/at
- ONVIF compliant for interoperability
- Auto provisioning, TR069, VPN, VLAN, QoS

- Advanced security protection with SRTP/TLS/HTTPS
- Interoperable with all major IP PBX platforms
- AEC, AJB, BNE, CNG, NR, PLC, VAD
- Audio codecs: G.711 A-law, μ-law, G.722 (wideband), G.723, G.726 and G.729AB

HDP-5240PT

720p SIP Multi-unit Door Phone with RFID and PoE

- 720p HD camera with viewing angle: 110°, 95°
- Wideband G.722 HD audio
- Trouble-free installation
- IP65 for eaves environment
- -20 to 60 degrees C operating temperature
- Unlock the door with an RFID, remote DTMF or local password

HDP-5260PT

720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoE

- 720p HD camera with 3 IR LEDs
- Wideband G.722 HD audio
- Anti-vandal solution
- IP65 and IK10 for rigorous environment
- -40 to 70 degrees C operating temperature
- Unlock the door with an RFID, remote DTMF or local password

HDP-1100PT

720p SIP Door Phone with PoE

- 720p HD camera with 6 white LEDs
- Wideband G.722 HD audio
- Trouble-free installation
- App and control pad alerts for any situation

Cloud Bell App

Z-Wave Plus Sensors

HZS-100

Z-Wave Wall-mount Motion Sensor

- 120-degree motion detection
- Tamperproof protection and report
- Low-power consumption
- Battery capacity detection
- Powerful home control and Z-Wave Plus™ certified
- Z-Wave Frequency:
  America: 908.42MHz, Europe: 868.42MHz

HZS-200

Z-Wave Ceiling-mount Smoke Detector

- Photoelectric sensor is particularly effective in detecting smoldering fires
- Built-in 85dB sounder and flashing red LED indicate presence of smoke
- Tamperproof protection and report
- Low-power consumption
- Powerful home control and Z-Wave Plus™ certified
- Z-Wave Frequency: America:
  908.42MHz, Europe: 868.42MHz

HZS-300

Z-Wave 4-in-1 Multi Sensor

- Door/Window contact, humidity, temperature and light sensor
- Door and window protection against unauthorized entry
- Tamperproof protection and report
- Low-power consumption and battery capacity detection
- Powerful home control and Z-Wave Plus™ certified
- Z-Wave Frequency: America: 908.42MHz, Europe: 868.42MHz

HZS-530 Series

Z-Wave Smart Energy Meter

- Energy and cost saving by setting up an automatic power on and off schedule
- Repeater to enhance the Z-Wave wireless communication range
- Voltage, current, wattage and total KWh report
- Overload protection
- Powerful home control and Z-Wave Plus™ certified
- Z-Wave Frequency: America: 908.42MHz, Europe: 868.42MHz

PLANET Mobile-friendly Feature-rich Online Resources

PLANET Global Website

PLANET announces brand-new global website that features an innovative and rich product knowledge database with more user-friendly interface. Here you can find:

- Product introduction, download resources, and related products
- Latest corporate and products news
- PLANET eTV Channel for various videos
- Product solutions and applications
- Download center -- FAQ, Support resources
- Product selectors and product tools

Mobile-friendly & Responsive Website Design

In Partner Area, we provide registered partners with up-to-date information and useful marketing tools that help you sell PLANET products and solutions for expanding your revenue opportunities:

- Support and Downloads include photos, EC declaration, emulators, sales guides, datasheets, drivers, etc.
- Marketing Tools cover a wide variety of product catalogues and corporate brand tools.
- Case studies on successful reference sites are shared among our worldwide partners.

Easy & Free PLANET DDNS Service
http://www.planetddns.com/

PLANET DDNS website provides a variety of products, such as PLANET IP Cameras, Router, and NAS, to support FREE Dynamic IP domain name service. Once the users register a simple and easy-to-remember domain name for your product in PLANET DDNS website, you can access and manage your devices anytime, anywhere.

PLANET Facebook Fan Page
http://www.facebook.com/PLANETTechnology

PLANET Facebook Fan Page is delivered to facilitate better exchange of information and interaction with our global customers. On our page, you can:

- Hear the latest news on PLANET
- Get the updated PLANET product information
- Share your experience with PLANET

PLANET Youtube Channel
http://www.youtube.com/user/PLANETTechnology

Aiming to provide user-friendly and feature-rich multimedia content, PLANET provides a wide variety of videos on Youtube Channel that includes:

- Corporate Introduction
- Product Solutions
- Product Demo
- IP Surveillance Live Clips
- Exhibition Highlights

International Recognitions

2019 Taiwan Excellence Award

Enterprise-class Wireless LAN Controller

Industrial Flat-type Smart LCD Router

TAIWAN EXCELLENCE SILVER AWARD 2019

Color Touch LCD Wireless LAN Managed Switch

Industrial Flat-type L2+ LCD Managed Switch

Worldwide Awards

Product Line Index

PLANET
Networking & Communication