PLANET
Networking & Communication

2015 PRODUCT GUIDE

- LAN Switches
- Industrial Ethernet
- Power over Ethernet
- Media Conversion
- Wireless LAN
- IP Telephony
- IP Surveillance
- Network Security
- Broadband Communication

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Overview

PLANET @ A Glance

PLANET provides the industry-leading, reliable, and standard-based networking products and solutions to meeting the market demands with by offering the most complete range of product offerings and superior cost-benefit performance. With a strong mission to be a "Pioneer of IP Innovation" in the global market, PLANET designs and manufactures networking products and solutions to achieve the goal of continual innovations. It is delivering its promises to be a worldwide Internet Protocol-based (IP) technology leader today and tomorrow, as well as demonstrating its continued commitment to innovation, quality, reliability, and efficiency.

Tradition of Innovations

PLANET was founded in 1993 by a group of computer engineers from Wang Laboratories. Through its years of experience in R&D, manufacturing, and global marketing PLANET is able to provide high-quality and cost-effective networking applications to meet the growing demands for businesses, education, finance, healthcare and government. PLANET was officially listed on Taiwan's Over the Counter Stock Exchange Market with trade code 6263 in September 2003.

Company Philosophy – 3R Strategy

PLANET continues to achieve high level of innovation, and most important of all, its long-lasting company philosophy is the "3R" strategy - Right Time, Right Product, Right Price. By putting the "3R" strategy into practice every day, we deliver the right products at the right time to market at the most cost-effective price. PLANET has set out to achieve maximum customer satisfaction for both business and technological requirements. In this respect, the "3R"strategy is the key to success for PLANET, reflecting PLANET's corporate culture which is growth-oriented and forward-looking.

Global Distribution Channels

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.

IPv4 and IPv6 Hardware Layer 3 Static Routing

Designed for system integrators and SMEs, the Layer 2+ series provides not only ultra high transmission performance and excellent layer 2 technologies but also offers IPv4 / IPv6 VLAN routing feature which allows to get across different VLANs and different IP addresses for the purpose of having a highly secured, flexible management and simpler networking applications.

Various Solution Choices and Flexible Deployment in All Kinds of Environments

PLANET LAN Switch Solution provides various choices with combinations of fiber, PoE, and Industrial Ethernet for different applications from 5 to 384 ports or more. Besides, PLANET LAN Switches are not only integrated with regular functions for SOHOs or small businesses but also provides different advanced functions for SMBs or larger businesses to manage wide coverage of network.

Fully User-friendly Management

For large-scale applications for telecoms, campuses, businesses, etc., PLANET managed LAN switches come with the fully user-friendly management of console, Telnet, web, SNMP and Cisco-like console to fully control the devices in IP surveillance image transmission, wireless data transmission and voice over IP.

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.

Layer 3 Managed Chassis Switches

XGS3 Chassis

XGS3-M24GX

XGS3-S24G

XGS3-S48G

XGS3-S48GF

XGS3-S4XG

IPv6/IPv4 Routing

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

- 188-Port 10/100/1000Base-T Copper
- 156-Port 1000Base-SX/LX SFP Fiber Slots
- 13-Port 10G XFP Fiber Slots
- 19-inch, 6U Rack-mount

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- Gigabit Wire-speed Layer 3 IPv4/IPv6 Routing
- Four Slots for optional Gigabit / 10 Gigabit modules
- IP Routing protocols: Static Route, RIPv1/v2, OSPFv2, BGP4 & VRRP
- IP Multicast Routing: IGMP, PIM-DM/SM, DVMRP
- IEEE 802.1Q / Private VLAN / GVRP for VLAN Management
- IEEE 802.1D / 1w / 1s Spanning Tree Protocol
- IEEE 802.1x / RADIUS / TACACS+ / SSH / SSL
- L2 / L3 / L4 Access Control List and QoS
- 100~240V AC Redundant Power System

Module	Type	10/100/1000T	1000SX/LX SFP	10G XFP	Power Unit
XGS3-M24GX	Management	24	12 (Shared)	1	-
XGS3-S24G	Standard	24	12 (Shared)	-	-
XGS3-S48G	Standard	48	-	-	-
XGS3-S4XG	Standard	-	-	4	-
XGS3-PWR-AC	Power	-	-	-	400W

10G Layer 3 Managed Switches

XGS3 Series

IPv6/IPv4 Routing

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, 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 x 24 Ports
- 100/1000Base-X SFP x 4 Ports shared with Port-21 to Port-24

XGS3-24242

- 100/1000Base-X SFP x 24 Ports
- 10/100/1000Base-T x 12 Ports shared with Port-13 to Port-24

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- Gigabit Wire-speed Layer 3 IPv4/IPv6 Routing
- IP Routing protocols: Static Route, RIPv1/v2, OSPFv2 & VRRP
- IP Multicast Routing: IGMP, PIM-DM/SM, DVMRP
- IEEE 802.1Q Tagged based VLAN and GVRP for VLAN Management
- L2 / L3 / L 4 Access Control List and IEEE 802.1x support
- SNMPv1/v2c/v3 and RMON Group 1, 2, 3, 9
- IP Stacking management, up to 24 units
- 100~240V AC / -48V DC Power Redundant
- 19-inch,1U Rack-mount

LAN Switches

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Network Peripheral

10G Layer 2+ IPv6 Managed Gigabit Switches

XGSW Series / GS-5220 Series

IPv6 Management   **L3** Static Routing

PLANET XGSW Series is the first Layer 2 IPv6 / IPv4 management 24-port Gigabit switch built in with four 10Gbps uplink slots to greatly support SMB network to achieve 10Gbps high performance in a cost-effective way because 10GbE interface usually could be available in Layer 3 Switch but Layer 3 Switch could be too expensive to SMBs. The XGSW 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.

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

XGSW-28040

- 10/100/1000Base-T x 24 Ports
- 100/1000Base-X SFP x 4 Ports
- 1000/10G SFP+ x 4 Ports

XGSW-28040HP

- 10/100/1000Base-T x 24 Ports
- 100/1000Base-X SFP x 4 Ports
- 1000/10G SFP+ x 4 Ports
- 440-watt PoE Budget, up to 24 PoE

TAIWAN EXCELLENCE 2014

GS-5220-48T4X

- 10/100/1000Base-T x 48 Ports
- 100/1000Base-X SFP x 4 Ports
- 1000/10G SFP+ x 4 Ports

GS-5220-46S2C4X

- 100/1000Base-X SFP x 48 Ports
- 1000/10G SFP+ x 4 Ports
- 10/100/1000Base-T x 2 Ports
- 1U height, 19-inch Rack-mount

Layer 2+ IPv6 Managed Metro Switches

MGSW Series

IPv6 Management   **DI/DO**   **L3** Static Routing

To fulfill the growing demand for IP network deployment from LAN to MAN (Metropolitan Area Network), PLANET has launched a brand-new network product - the MGSW Gigabit Metro Ethernet Switch Series. The MGSW 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~-72V DC or 100V~240V AC
- -10 to 60 degrees C Operating Temperature
- IEEE 802.1Q VLAN / Protocol VLAN / GVRP / MVR
- IEEE 802.1D / 1w / 1s Spanning Tree Protocol for Ethernet Redundancy
- Policy-based QoS / Bandwidth Control and Storm Control
- Layer 2 / 3 / 4 Access Control List and Port Security
- Web / SNMP v1, v2c, v3 and Telnet Remote IP Management
- IPv6/IPv4 Dual Stack Management
- DI/DO
- Front Access Design
- 19-inch,1U Rack-mount

MGSD-10080F

- 100/1000Base-X SFP x 8 Ports
- 10/100/1000Base-T x 2 Ports

MGSW-24160F

- 100/1000Base-X SFP x 16 Ports
- 10/100/1000Base-T x 8 Ports

MGSW-28240F

- 10/100/1000Base-T x 4 Ports
- 100/1000Base-X SFP x 24 Ports
- 1000/10G SFP+ x 4 Ports

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Layer 2+ IPv6 Managed Gigabit Switches

WGS Series / GS-5220 Series

IPv6 Management

L3 Static Routing

PLANET WGS Series supports both IPv4 and IPv6 management functions and supports IPv4/IPv6 Layer 3 static routing. It offers IPv4/IPv6 VLAN routing feature which allows to cross over different VLANs and diffe rent IP addresses for the purpose of having a highly secured, flexible management and simpler networking applications.

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

- IPv4 / IPv6 Layer 3 Static Routing
- IPv6 Web interface / SNMP v1, v2c and v3 / SSH / SSL management
- Static and IEEE802.3ad Link Aggregation
- DHCP Snooping / ARP Inspection and IP Source Guard
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q / Protocol-based VLAN / MAC-based VLAN
- IEEE 802.1D / 1w / 1s Spanning Tree Protocol
- QoS Control List / Bandwidth Control
- 802.1X / RADIUS / TACACS+ Authentication
- Layer 2 / 3 / 4 Access Control List
- IGMP Snooping v1, v2 and v3 / 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 x 8 Ports
- 100/1000Base-X SFP x 2 Ports
- 13 inch desktop size
- Fanless

WGSW-24040 / WGSW-24040R

- 10/100/1000Base-T x 24 Ports
- 100/1000Base-X SFP x 4 Ports
- 100~240V AC / -48V DC Redundant Power

WGSW-52040

- 10/100/1000Base-T x 48 Ports
- 100/1000 Base-X SFP x 4 Ports
- IP Stacking up to 24 units

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

- 10/100/1000Base-T x 8Ports
- 100/1000Base-X SFP x 24 Ports
- Each SFP slot supports DDM
- 100~240V AC / -48V DC Redundant Power

GS-5220-44S4C

- 100/1000Base-X SFP x 48 Ports
- 10/100/1000Base-T x 4 Ports
- Each SFP slot supports DDM
- 1U height, 19-inch Rack-mount

WGSD-10020HP

- 10/100/1000Base-T with 802.3at PoE+ x 8 Ports
- 100/1000Base-X SFP x 2 Ports
- 150-watt PoE Budget, up to 8 PoE
- 13-inch desktop size, 1U Rack-mountable

WGSW-20160HP

- 10/100/1000Base-T with 802.3at PoE+ x 16 Ports
- 10/100/1000Base-T x 4 Ports
- 100/1000Base-X SFP x 4 Ports
- 230-watt PoE Budget, up to 16 PoE

WGSW-24040HP / WGSW-24040HP4

- 10/100/1000Base-T with 802.3at PoE+ x 24 Ports
- 100/1000Base-X SFP x 4 Ports
- 220 /440-watt PoE Budget, up to 24 PoE

WGSW-48040HP

- 10/100/1000Base-T with 802.3at PoE+ x 48 Ports
- 100/1000Base-X SFP x 4 Ports
- 600-watt PoE Budget, up to 24 PoE
- 19-inch, 1U Rack-mountable

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10G Layer 2+ IPv6 Managed Stackable Gigabit Switches

SGS-5220 Series

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 / IPv6 Layer 3 Static Routing
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- IGMP Snooping v2 and v3 / MLD Snooping
- IEEE 802.1s MSTP and Loop Protection
- IPv6 Web interface / SNMP v1, v2c and v3 / SSH / SSL Management

SGS-5220-24T2X

- 10/100/1000Base-T x 24 Ports
- 100/1000Base-X SFP x 4 Ports
- 1000/10G SFP+ Uplink x 2 Ports
- 10G SFP+ Stacked x 2 Ports

SGS-5220-24P2X

- 10/100/1000Base-T with 802.3at PoE+ x 24 Ports
- 100/1000Base-X SFP x 4 Ports
- 1000/10G SFP+ Uplink x 2 Ports
- 10G SFP+ Stacked x 2 Ports
- IEEE 802.3af/at Power over Ethernet
- 440-watt PoE Budget, up to 24 PoE Powered devices
- Up to 30 watts per Port

Layer 2/4 IPv6 Managed Stackable Gigabit Switches

SGSW Series

PLANET Stackable Layer 2 Managed Gigabit Switch series, with model names starting with SGSW, includes Managed Switches, PoE Switches and Fiber Switches. They are all multiple port Gigabit Ethernet Switches with hardware stacking ability. The SGSW series of stackable Gigabit Switches is the best solution to meeting the need of large scale network deployment and the growing Gigabit network demand. Today, with the new features, the SGSW Switch series brings a higher level of security management and more applications to enterprises, campuses and telecom level users.

- Up to 384 Gigabit (Copper / SFP) connectivity per stack group
- IPv4 / IPv6 Management and SSH / SSL Secure Management
- DHCP Snooping / ARP Inspection and IP Source Guard
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- IEEE 802.1w / 1s Spanning Tree Protocol
- Multicast VLAN Registration / Voice VLAN
- Layer 2 / 3 / 4 Access Control List
- 802.1X / RADIUS / TACACS+ Authentication
- SNMP v1, v2c, v3 and 4 RMON groups
- Hardware Stacking management, up to 16 units
- 19-inch,1U Rack-mount

SGSW-24040 / SGSW-24040R

- 10/100/1000Base-T x 24 Ports
- 100/1000Bsse-X x 4 Ports
- 100~240V AC / -48V DC Power

SGSW-24240 / SGSW-24240R

- 10/100/1000Base-T x 8 Ports
- 100/1000Base-X x 24 Ports
- Each SFP slot supports 100Base-FX and 1000Base-SX/LX Transceivers
- 100~240V AC / -48V DC Power

SGSW-24040P4

- 10/100/1000Base-T x 24 Ports
- 100/1000Base-X x 4 Ports
- IEEE 802.3af Power over Ethernet
- 380-watt PoE Budget, up to 24 PoE Powered Devices

SGSW-24040HP

- 10/100/1000Base-T x 24 Ports
- 100/1000Base-X x 4 Ports
- IEEE 802.3af/802.3at Power over Ethernet
- 360-watt PoE Budget, up to 24 PoE Powered Devices
- Up to 30.8 watts per Port

Layer 2/4 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 / 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 the cost of Fast Ethernet switches but at a low price. 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 / GVRP
- IEEE 802.1w RSTP, IEEE 802.1s MSTP and Loop Protection
- IPv4 IGMP Snooping v2 and v3 / IPv6 MLD Snooping
- QoS / Voice VLAN / Bandwidth Control
- Layer 2 / 3 / 4 Access Control List
- IEEE 802.1X / RADIUS Authentication
- IPv4 / IPv6 Web interface /Telnet / SNMP v1, v2c and v3 / SSH / SSL Management

GS-4210-16T2S

- 10/100/1000Base-T x 16 Ports
- 100/1000Base-X SFP x 2 Ports
- Fanless

GS-4210-24T2S

- 10/100/1000Base-T x 24 Ports
- 100/1000Base-X SFP x 2 Ports
- Fanless

GS-4210-24P2S

- 10/100/1000Base-T x 24 Ports
- 100/1000Base-X SFP slots x 2
- IEEE 802.3af / 802.3at Power over Ethernet
- 300-watt PoE budget, up to 24 PoE Powered Devices
- Up to 30.8 watts per PoE port

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

- 10/100/1000Base-T with 802.3at PoE+ x 24 Ports
- 10/100/1000Base-T x 4 Ports
- 100/1000Base-X SFP x 4 Ports
- 220 /440-watt PoE Budget, up to 24 PoE
- Up to 30 watts per PoE port
- PD Alive Check / Scheduled Power Recycling / Time-based PoE Schedule

WGSW-28040

- 10/100/1000Base-T x 28 Ports
- 100/1000Base-X SFP x 4 Ports
- Fanless

Layer 2/4 IPv6 Managed Desktop Size Gigabit Switches

PLANET GSD-1002M, the smallest Managed Gigabit Switch in the networking industry, integrates with 8-Port 10/100/1000Base-T copper, 2 extra 100/1000Base-X SFP fiber optic interfaces and PoE PD capability delivered in a handheld size metal case, with powerful L2/L4 network switching engine and advanced IPv6/IPv4 management functions inside. Without space limitation, it is easy to install the GSD-1002M almost anywhere, ideal for communication closet or desktop. It is ready to bring superior usability and improve user experiences.

GSD-1020S

- 10/100/1000Base-T x 8 ports
- 100/1000Base-X SFP x 2 ports
- 10-inch dedktop size, 19-inch rack-mountable
- Internal Power Supply

GSD-1002M

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

GS-4210-8P2S

- 10/100/1000Base-T with 802.3at PoE+ x 8 Ports
- 100/1000Base-X SFP x 2 Ports
- 110-watt PoE Budget, up to 8 PoE
- 13-inch desktop size, 1U Rack-mountable

GS-4210-8P2T2S

- 10/100/1000Base-T with 802.3at PoE+ x 8 Ports
- 10/100/1000Base-T x 2 Ports
- 100/1000Base-X SFP x 2 Ports
- 240-watt PoE Budget, up to 8 PoE
- 13-inch desktop size, 1U Rack-mountable
- Smart fan design for silent operation

Layer 2 Managed Fast Ethernet Switches

PLANET FGSW Managed switch series is the best solution for a cost-effective, campus and department network application with reliable data connection, multicast traffic control, network security and powerful management functions.

The FGSW series includes Multiple Spanning Tree Protocol (MSTP), IGMP Snooping, Multicast VLAN and Voice VLAN, and Layer 2 to Layer 4 Access Control List. These management functions help to perform a more complete network solution, ideal for campus or enterprise networks.

- IEEE 802.1Q Tagged based and Port-based VLAN
- Static Port Trunk and IEEE 802.3ad Link Aggregation
- IGMP Snooping v1 / v2 and Query mode
- IEEE 802.1D / 1s Spanning Tree Protocol
- Auto Voice VLAN

- Access Control List
- SNMP v1, v2c, v3 and 4 RMON groups and SNMP trap
- SSL / SSH
- 1U Rack-Mount

FGSW-2840

- 10/100Base-TX x 24 ports
- 10/100/1000Base-T x 4 ports
- 100/1000Base-X x 2ports
- Fanless

FGSW-4840S

- 10/100Base-TX x 48 ports
- 10/100/1000Base-T x 2 ports
- 1000Base-X SFP x 2 ports
- Fanless

FSD-624SF

- 100Base-FX POF x 4 ports
- 10/100/1000Base-X x 1 port
- 1000Base-X SFP x 1 port
- Desktop

Layer 2 Web Smart Gigabit Switches

PLANET Layer 2 Web Smart Gigabit Switch can handle an extremely large amount of data in a secure topology linking to an Enterprise backbone or high capacity network server. The powerful features of QoS and network security enables Web Smart Switch to offer effective data traffic control for ISPs and Enterprises, such as VoIP, video streaming and multicast applications. The Web Smart Switch provides the non-blocking switch fabric and wire-speed throughput as high as up to 48Gbps, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands. It is ideal for the core layer of campus, enterprise networks and the aggregation layer of IP metropolitan networks.

- IEEE 802.1Q Tagged based and Port-based VLAN
- Static and 802.3ad Link Aggregation
- 4 priority queues on all switch ports
- IGMP Snooping v1/v2 and IGMP Query
- IEEE 802.1w Rapid Spanning Tree protocol

- Port Mirroring for traffic monitor
- Ingress Rate Limit and Egress Shaping for Bandwidth Control
- 802.1X Port-based Authentication
- 1U Rack-Mount

GSD-800S

- 10/100/1000Base-T x 8 ports
- 13 inch desktop design
- Fanless

GSW-1602SF

- 10/100/1000Base-T x 16 ports
- 1000Base-X SFP x 2 ports
- Green networking for energy saving

GSW-2404SF

- 10/100/1000Base-T x 24 ports
- 1000Base-X SFP x 4 ports
- Green networking for energy saving

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 packets loss
- Auto-negotiation

GSD-503

- 10/100/1000Base-T x 5 ports
- 9K Jumbo Frame
- Green networking for energy saving
- Made of metal

GSD-504

- 10/100/1000Base-T x 5 ports
- 9K Jumbo Frame
- Green networking for energy saving
- Made from plastic

GSD-803PD

- 10/100/1000Base-T x 8 ports
- 9K Jumbo Frame
- Green networking for energy saving
- Made of metal
- Dual redundant power input on 802.3af / at PD and 5V DC power jack

PoE
PD

GSD-803

- 10/100/1000Base-T x 8 ports
- 9K Jumbo Frame
- Green networking for energy saving
- Made of metal

GSD-804

- 10/100/1000Base-T x 8 ports
- 9K Jumbo Frame
- Green Networking for energy saving
- Made from plastic

GSD-805

- 10/100/1000Base-T x 8 ports
- 9K Jumbo Frame
- Internal Power supply
- Desktop / wall-mount design

GSW-1601

- 10/100/1000Base-T x 16 ports
- 9K Jumbo Frame
- 8K MAC Address Table
- Fanless
- 19-inch, 1U Rack-mountable

GSW-2401

- 10/100/1000Base-T x 24 ports
- 9K Jumbo Frame
- 8K MAC Address Table
- Fanless design
- 19-inch, 1U Rack-mountable

LAN Switches

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Layer 2 Unmanaged Switches

FSD-503 / FSD-803

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

SW-504 / SW-804

- 10/100Base-TX x 5 ports (SW-504)
- 10/100Base-TX x 8 ports (SW-804)
- 802.1Q VLAN transparent
- Made from plastic

FSD-805SC / FSD-805S15

- 10/100Base-TX x 8 ports
- 100Base-FX x 1 port
- 802.1Q VLAN transparent
- Internal power supply
- Desktop / Wall mount

FSD-1606

- 10/100Base-TX x 16 ports
- 8K MAC Address Table
- One power button
- Desktop / Wall mount
- 802.1Q VLAN transparent

FNSW-1601

- 10/100Base-TX x 16 ports
- 8K MAC Address Table
- Green networking for energy saving
- 802.1Q VLAN transparent
- 19-inch, 1U Rack-mountable

FNSW-2401

- 10/100Base-TX x 24 ports
- 8K MAC Address Table
- Green networking for energy saving
- 802.1Q VLAN transparent
- 19-inch, 1U Rack-mountable

FGSW-2620

- 10/100Base-TX 24 ports
- 10/100/1000Base-T x 2 ports
- 8K MAC Address Table
- CoS traffic control
- 19-inch, 1U Rack-mountable

FNSW-4800

- 10/100Base-TX x 48 ports
- 8K MAC Address Table
- 802.1Q VLAN transparent
- 19-inch, 1U Rack-mountable

-40°C

75°C

All-Inclusive
Industrial Ethernet Solution

Managed
Gigabit Managed Switch

Fiber
Fiber Managed Switch

PoE+
High Power PoE Ethernet Switch

Solar
Solar Power PoE Switch

Wireless
5G/2.4G Outdoor Wireless AP

ITU-T G.8032 ERPS

PLANET Industrial Ethernet switch series supports redundant ring technology and 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 environments.

Weatherproof Designs

For any harden environments, PLANET Industrial Ethernet Solution integrated weatherproof designs to protect the networking under stable transmission such as wide operating temperature in -40°C to 75°C, IP67 grade for waterproof and dustproof, and 20kV lightning surge protection.

IEEE 1588 Time Protocol for Industrial Computing Networks

The IGS-20040MT is intended for Telecom and Carrier Ethernet applications, supporting MEF service delivery and timing over packet solutions for IEEE 1588 and Synchronous Ethernet.

IEEE 1588

Environmental friendly and intelligent PoE design

The PLANET industrial PoE Solution includes switches, converters, extenders, and wireless access point, compliant with standard IEEE 802.3af and IEEE 802.3at and able to transmit data and power simultaneously at the distance up to 100 meters. PLANET Managed PoE Switch features many intelligent PoE functions to enhance the efficient management of powered devices in the hardened network.

Industry-leading integration of PoE technology and Solar Power System

To fulfill the increasing demand of network installation in remote area, PLANET develops Industrial Solar Power PoE Switch that utilizes the Zero-Carbon emission source - the sun light, and incorporates the high power PoE technology to enable network deployment anywhere without any obstacles of geographical barrier.

Layer 2 Industrial Full Gigabit Managed Switches

PLANET Industrial Ethernet Switches are industrially hardened to be specially designed to operate reliably in electrically harsh and climatically demanding environment. PLANET 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' means that it can support and operate under WIDE-RANGING TEMPERATURE environment from -40 up to 75 degrees C.

Redundant Ring, Fast Recovery for Surveillance System
The IGS series supports redundant ring technology and 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 20 ms.

IGS-20040MT

- 16-Port 10/100/1000Base-T
- 4-Port 100/1000Base-X SFP
- IPv6/IPv4 WEB/Telnet/SNMP management
- 802.1Q VLAN/MSTP/IGMP Snooping
- E.R.P.S Ring supported
- DI/DO supported
- -40 ~75 degrees C operating temperature

IEEE 1588

IGS-10020MT

- 8-Port 10/100/1000Base-T
- 2-Port 100/1000Base-X SFP
- IEEE 802.1w RSTP supported
- E.R.P.S Ring supported

IGS-10080MFT

- 8-Port 100/1000Base-X SFP
- 2-Port 10/100/1000Base-T
- E.R.P.S Ring supported

IGS-801M

- 8-Port 10/100/1000Base-T
- IEEE 802.1w RSTP supported

IGSW-24040T

- 24-Port 10/100/1000Base-T
- 4-Port 100/1000Base-X SFP combo
- DI/DO supported

IGSW-2840

- 24-Port 10/100Base-TX
- 4-Port 100/1000Base-X SFP Combo

Factory

Office

IGS-20040MT

24-Port MAN Switch

E.R.P.S. Ring for Metropolitan Area Network Application Recovery Time < 50ms

Industrial PoE Switch   Highway   Industrial PoE Switch

8-Port MAN Switch

Control Center

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Layer 2 Industrial Full Gigabit Switches

After PLANET IGS Gigabit Ethernet Switch series became popular, PLANET now releases the advanced industrial hardened Fast Ethernet Switch series with 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' means that it can support and operate under WIDE-RANGING TEMPERATURE environment from -40 up 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 aluminum case and 100Base-FX port or Gigabit TP/SFP SFP combo interfaces for long distance uplink.

IGS-501T

- 5-Port 10/100/1000Base-T
- -40 to 75 degrees C wide ranging temperature
- IP30 metal case

IGS-801T

- 8-Port 10/100/1000Base-T
- -40 to 75 degrees C wide ranging temperature
- IP30 metal case
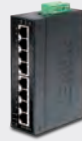
IGS-620TF

- 4-Port 10/100/1000Base-T
- 2 x SFP Interface 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

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-501T

- 5-Port 10/100Base-TX
- -40 to 75 degrees C operating temperature
- IP30 metal case

ISW-801T

- 8-Port 10/100Base-TX
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
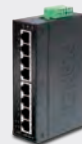
ISW-511T / ISW-511TS15

- 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 slot
- Supports 100Base-FX SFP module
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

ISW-800T-M12

- 8-Port 10/100Base-TX
- Industrial protected IP67 metal case
- Robust M12 Ethernet connector
- Waterproof / Dustproof
- -40 to 75 degrees C wide operating temperature

Layer 2 Industrial Managed PoE Switches

PLANET industrial PoE switch series in-line power follows standard IEEE 802.3af or IEEE 802.3at 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. 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. A wire that carries both data and power lowers the installation costs, simplifies the installation effort and eliminates the need for electricians or extension cords.

IGS-10020HPT

- 8-Port 10/100/1000Base-T
- 2-Port 100/1000Base-X SFP
- IEEE 802.1s MSTP Supported
- Supports IEEE 802.3at PoE standard
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
- E.R.P.S Ring supported

IGS-10020PT

- 8-Port 10/100/1000Base-T
- 2-Port 100/1000Base-X SFP
- IEEE 802.1s MSTP Supported
- Supports IEEE 802.3af PoE standard
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
- E.R.P.S Ring supported

ISW-1022MPT

- 8-Port 10/100Base-TX with PoE
- 2-Port 100/1000Base-X TP/SFP Combo
- Supports IEEE 802.3af PoE standard
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IGS-5220-24P4S

- 24-Port 10/100/1000Base-T
- 4-Port 100/1000Base-X SFP
- IEEE 802.1s MSTP Supported
- Supports IEEE 802.3at PoE standard
- -40 to 75 degrees C wide operating temperature
- IP30 metal case
- E.R.P.S Ring supported

Layer 2 Industrial PoE Lite Managed Switches

ISW-504PS

- 5-Port 10/100Base-TX with 4-Port PoE
- Supports IEEE 802.3af PoE standard
- -10 to 60 degrees C operating temperature
- IP30 metal case

ISW-514PS

- 4-Port 10/100Base-TX with PoE
- 1-Port 100Base-FX multi-mode fiber optic
- Supports IEEE 802.3af PoE standard
- -10 to 60 degrees C operating temperature
- IP30 metal case

ISW-514PS15

- 4-Port 10/100Base-TX with PoE
- 1-Port 100Base-FX single mode fiber optic, 15km
- Supports IEEE 802.3af PoE standard
- -10 to 60 degrees C operating temperature
- IP30 metal case

ISW-514PSF

- 4-Port 10/100Base-TX with PoE
- 1-Port 100Base-FX SFP slot
- Supports IEEE 802.3af PoE standard
- -10 to 60 degrees C operating temperature
- IP30 metal case

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Layer 2 Industrial PoE Switches

PLANET industrial PoE switch series in-line power follows standard IEEE 802.3af 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

- 5-Port 10/100Base-TX with 4-Port PoE
- Supports IEEE 802.3af PoE standard
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

ISW-514PT / ISW-514PT15

- 4-Port 10/100Base-TX with PoE
- 1-Port 100Base-FX multi-mode fiber optic, 2km (ISW-514PT)
- 1-Port 100Base-FX single-mode fiber optic, 15km (ISW-514PT15)
- Supports IEEE 802.3af PoE standard
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

ISW-514PTF

- 4-Port 10/100Base-TX with PoE
- 1-Port 100Base-FX SFP slot
- Supports IEEE 802.3af PoE standard
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IGS-504HPT

- 5-Port 10/100/1000Base-T with 4-Port PoE+
- Supports IEEE 802.3af/at PoE standard
- Smart PoE power usage LED indicator
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IGS-624HPT

- 4 x PoE+ 10/100/1000Base-T Ports
- 2 x 100/1000Base-X SFP interface (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

BSP-300

- 2-Port 10/100/1000Base-T with PoE
- 1-Port 10/100/1000Base-T
- Supports IEEE 802.3af/at PoE standard
- -20~60 degrees C wide operating temperature
- Integrated with solar PV and battery for easy installation

IPOE-E174

- Forwards both Ethernet data and in-line power to 4 remote devices
- 1 PoE input port and 4 PoE output ports
- 52V DC, 25-watt (max.) PoE power output
- IEEE 802.3at / af PoE standard compliant
- Extends Cat.5 cable installations to beyond 100 meters
- No local power required
- Plug and Play, no software required

60Watts Ultra Power over Ethernet
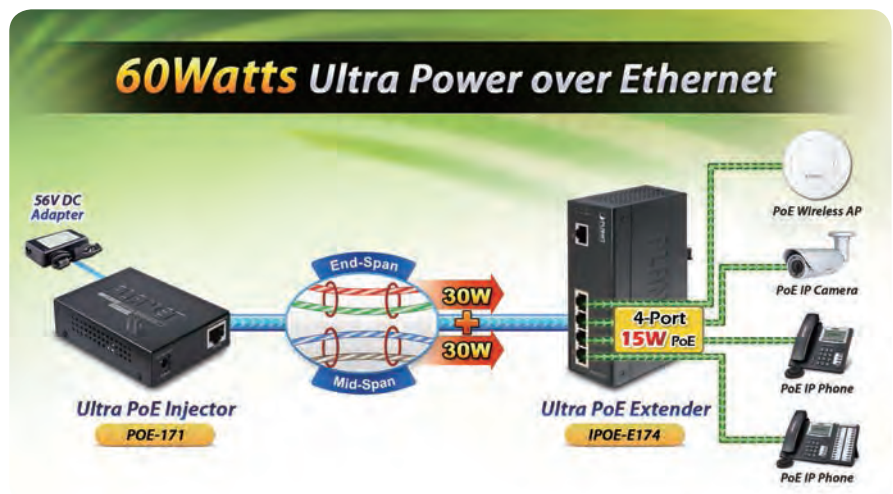
Layer 2 Industrial Weatherproof PoE Switches / Extenders

PLANET Layer 2 Industrial Weatherproof PoE Switches / Extenders can operate stably even in an environment full of high vibrations and shocks or when it is immersed one meter under water for it is uniquely equipped with waterproof/dustproof ether RJ45 or M12 connectors and rugged IP67 aluminum case to transmit data in Gigabit speed and provide high power PoE in wide temperature range from -40 to 75 degrees C.

ISW-804PT-M12

- 8-Port 10/100Base-TX with PoE
- IEEE 802.3af PoE supported
- Industrial protected IP67 metal case
- Robust M12 Ethernet Connector
- -40 to 75 degrees C wide operating temperature

IGS-604HPT-RJ

- IP67 aluminum case, outdoor installation
- Waterproof / dustproof RJ45 Ethernet connector
- 6-Port Gigabit managed switch
- 4 x 30W IEEE 802.3at PoE+ PSE port
- PoE Schedule, Schedule Power Recycle and PD Alive Check functions
- Secure SSL / SSH / SNMPv3 Management
- ERPS ring support
- MSTP / BPDU Guard / Loop Protection

IPOE-E202

- 10/100/1000Base-T "Data + Power" Input x 1 Shielded RJ-45 Port
- 10/100/1000Base-T "Data + Power" Output x 2 Shielded RJ45 Ports
- Complies with IEEE 802.3af 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

Layer 2 Industrial Wall-mount PoE Switches

WGS-804HP

- Compact size and wall mounted design without space limitation
- 8-port 10/100/1000Mbps RJ45
- 4-port IEEE 802.3at PoE+, 120-watt PoE budget
- Distance up to 100m with 30-watt power output
- LED indicators for PoE usage and PoE status
- Plug & Play installation

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

17
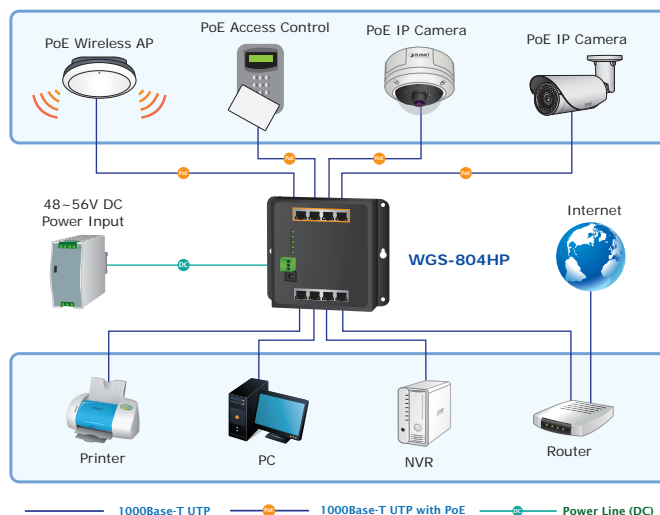
Industrial Wireless Access Points

For a robust Wireless access, PLANET IAP-200x Access Point series brings the new choice. The IAP-200x series comes with Industrial grade 802.11n Wireless interface for up to 300Mbps wireless performance that adopts the 802.11n MIMO technology. The IAP-200x Access Point series supporting multiple operating modes from Access Point, AP Client, Bridge and WDS bridge makes the wireless connection in accordance with your demand. Being an industrial grade Wireless Access Point, the IAP-200x series makes the Wireless connection in any environment.

With 4 10/100Mbps Fast Ethernet interface, and one additional 100Base-FX fiber-optic interface, the IAP-200x provides plug and play and reliable data link for long distance connectivity. And what's more, it features the PoE (Power over Ethernet) capability. The Access Point, model IAP-200xPS, also has 4 built-in IEEE 802.3af PSE (Power Source Equipment) that helps to drive up to 4 PoE IP cameras, and IP Telephony for applications like traffic monitoring and factory VoIP communication.

IAP-2000PE

- Complies with IEEE 802.11n, WLAN speed 300Mbps
- 2 x5dBi detachable omni-directional antenna
- IPv4 / IPv6 web management
- -10 to 60 degrees C operating temperature
- IP30 metal case

IAP-2000PS

- Complies with IEEE 802.11n, WLAN speed 300Mbps
- 4-Port 10/100Base-TX with IEEE 802.3af PoE
- 2 x5dBi detachable omni-directional antenna
- IPv4 / IPv6 web management
- -10 to 60 degrees C operating temperature
- IP30 metal case

IAP-2001PE

- Complies with IEEE 802.11n, WLAN speed 300Mbps
- 2 x5dBi detachable omni-directional antenna
- 1-Port 100Base-FX SFP slot
- IPv4 / IPv6 web management
- -10 to 60 degrees C operating temperature
- IP30 metal case

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
- IP30 metal case

IPOE-162S

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

Industrial Gigabit Fiber over Ethernet Managed Media Converters

In the industrial networking environments, each networked device is required to run continuously in the hazardous status. If industrial equipment stops the connection to the network, it might influence the entire operation of industrial systems and cause incredible financial losses.

PLANET Industrial Media Converter Solution is designed with strong casing with high endurance of extreme temperatures in harsh industrial conditions. It also provides the dynamic status report and real-time alarm messages that are easy to monitor and manage the entire industrial networks. PLANET Layer 2 Industrial Managed Switches, with model names starting with IGT series, mean the signal converts between fiber-optic interface and Gigabit Ethernet port.

IGT-905A

- 1-Port 1000Base-X SFP fiber optic slot
- 1-Port 10/100/1000Base-T Ethernet
- DC 12V to 48V power redundant power input interface
- -30 to 75 degrees C operating temperature
- IP30 metal case

IGT-902T

- 1-Port 1000Base-SX SC multi-mode, 2km fiber optic
- 1-Port 10/100/1000Base-T Ethernet
- DC 12V to 48V power redundant power input interface
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IGT-902TS

- 1-Port 1000Base-SX SC single mode, 10km fiber optic
- 1-Port 10/100/1000Base-T Ethernet
- DC 12V to 48V power redundant power input interface
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

Industrial Fiber over Fast Ethernet Media Converters

In the industrial networking environments, each networked device is required to run continuously in the hazardous status. If industrial equipment stops the connection to the network, it might influence the entire operation of industrial systems and cause incredible financial losses.

PLANET Industrial Media Converter Solution is designed with strong casing with high endurance of extreme temperatures in harsh industrial conditions. It also provides the dynamic status report and real-time alarm messages that are easy to monitor and manage the entire industrial networks. PLANET Layer 2 Industrial Managed Switches, with model names starting with IFT series, mean the signal converts between fiber-optic interface and Fast Ethernet port.

IFT-802T

- 1-Port 100Base-FX SC multi-mode, 2km fiber optic
- 1-Port 10/100Base-TX Ethernet
- DC 12V to 48V power redundant power input interface
- -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 Ethernet
- DC 12V to 48V power redundant power input interface
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IFT-805AT

- 1-Port 100Base-FX SFP fiber optical slot
- 1-Port 10/100Base-TX Ethernet
- DC 12V to 48V power redundant power input interface
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Industrial PoE Media Converters

PLANET industrial PoE switch series in-line power follows standard IEEE 802.3af 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. 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. A wire that carries both data and power lowers the installation costs, simplifies the installation effort and eliminates the need for electricians or extension cords.

IGTP-802T

- 1-Port 10/100/1000Base-T with PoE
- 1-Port 1000Base-SX multi-mode, 220 / 550 meters
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IGTP-802TS

- 1-Port 10/100/1000Base-T with PoE
- 1-Port 1000Base-SX single mode, 10km
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

IGTP-805AT

- 1-Port 10/100/1000Base-T with PoE
- 1-Port 1000Base-SX SFP slot
- -40 to 75 degrees C wide operating temperature
- IP30 metal case

Industrial RS232/RS485/RS422 over Ethernet Media Converters

In the industrial networking environments, each networked device is required to run continuously in the hazardous status. If industrial equipment stops the connection to the network, it might influence the entire operation of industrial systems and cause incredible financial losses.

PLANET Industrial Media Converter Solution is designed with strong casing with high endurance of extreme temperatures in harsh industrial conditions. It also provides the dynamic status report and real-time alarm messages that are easy to monitor and manage the entire industrial networks. 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.

ICS-2100

- 1-Port 10/100Base-TX Ethernet
- 1 RS232 with DB9 Interface
- 1 RS485 or RS422 with terminal block interface
- AC 24V or DC 12V to 48V power redundant power input interface
- -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
- AC 24V or DC 12V to 48V power redundant power input interface
- -10 to 60 degrees C operating temperature
- IP30 metal case

ICS-2105A

- 1 Port 100Base-FX SFP fiber optical slot
- 1 RS232 with DB9 interface
- 1 RS485 or RS422 with terminal block interface
- AC 24V or DC 12V to 48V power redundant power input interface
- -10 to 60 degrees C operating temperature
- IP30 metal case

Industrial Ethernet Extenders

The IVC Series is designed to utilize the commonly existed coaxial cables or phone wires to extend the UTP Ethernet over 100m distance limitation and transmits both power and data over single Ethernet cable to remote PoE capable devices in heavy industrial demanding environments.

With 4 10/100Mbps auto-negotiation ports and one VDSL2 BNC / RJ-11 combo port for the currently popular Ethernet over VDSL2 connection (symmetry means upstream and downstream rates are the same), it is ideal for signal conversion by transmitting the Ethernet data from the standard RG58 cable to the coaxial cable or existing copper telephone line for extending the distance.

IVC-2002

- Long reach Ethernet and extending transmission distance:
- Up to 2.4km (7,874 ft) over coaxial cable
- Up to 1.4km (4,500 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 design
- IP30 metal case

IVC-2004PT

- Long reach Ethernet and extending transmission distance:
- Up to 2.4km (7,874 ft) over coaxial cable
- Up to 1.4km (4,500 ft) over twisted phone wire
- Up to 95Mbps transmission performance under 200m (656 ft)
- 15.4-watt full power injected by each PoE port
- -40 to 75 degrees C wide-ranging operating temperature
- 48V DC redundant power design
- IP30 metal case

DIN-rail Power Supplies

As Industrial Ethernet equipment is specially designed for the harsh working environment, sometimes it is hard to find suitable DC voltage power source for the industrial Ethernet devices. To conquer this limit, PLANET now releases the PWR series - DC Single Output Industrial DIN Rail Power Supply Units. The DC Single Output Industrial DIN Rail Power Supply Units accept universal 100-240 AC input voltage or DC input and provide 24V / 48V DC power output with various watt values. The Power Supply units are designed in compact size and can be installed on DIN rail TS-35 / 7.5 or 15. It is an ideal and convenient DC power feeding solution for industrial equipment under heavy industrial environments.

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-120-48

- 100~240V AC, 50/60Hz, 3.3A input voltage
- Power output 120 watts, 48V, 2.5A
- DIN rail TS-35/7.5 or 15
- -10 ~ 60 degrees C operating temperature

PWR-240-48

- 100~240V AC, 50/60Hz, 3.5A input voltage
- Power output 240 watts, 48V, 5A
- DIN rail TS-35/7.5 or 15
- -10 ~ 70 degrees C operating temperature

PWR-480-48

- 100~240V AC, 50/60Hz, 5A input voltage
- Power output 480 watts, 48V, 10A
- DIN rail TS-35/7.5 or 15
- -25 ~ 70 degrees C operating temperature

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

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Network Peripheral

Industrial-leading Innovative
Power over Ethernet Solution

▶ **High Power PoE Switch**

PoE

Wireless AP

Fisheye IP Camera

Fixed Dome IP Camera

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. The IP-based remotely Web management interface also provides an effective central power management solution to monitor and control per port power feeding of deployed powered devices.

Extend IP networking transmission

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

Unique Intelligent PoE Management for Power Saving

In order to support users conveniently manage the PoE system or end-span devices in the client site, PLANET develops a unique and user-friendly Intelligent PoE Management functions which effectively assists the IT managers to improve the efficiency of management, save the cost of maintenance, and extend the life of products.

The **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 enable automatically to prevent the product from damage due to over temperature.

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 damages, this function automatically enables to protect the connected devices while PoE power consumption of connected devices overload.

The **Auto-detected connected devices function** support not only standard IEEE PoE products but also non-PoE products. This function can automatically detect and identify whether connected devices such as IP camera comply with standard IEEE PoE 802.3af, 802.3at or non standard PoE. For eco-friendly and energy-saving design, this function will depend on the length of the Ethernet to provide the optimal power usage and identify the status of the connected devices. If IT manager installs non standard IEEE PoE devices, this function can protect the device and supply optimal power usage.

LAN Switches

Industrial Ethernet

Power over Ethernet

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Network Peripheral

PoE Intelligent
Management Functions

PoE PD Alive-checking

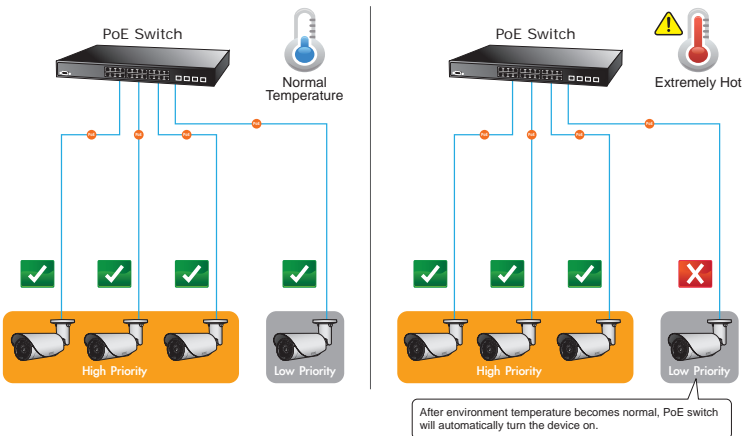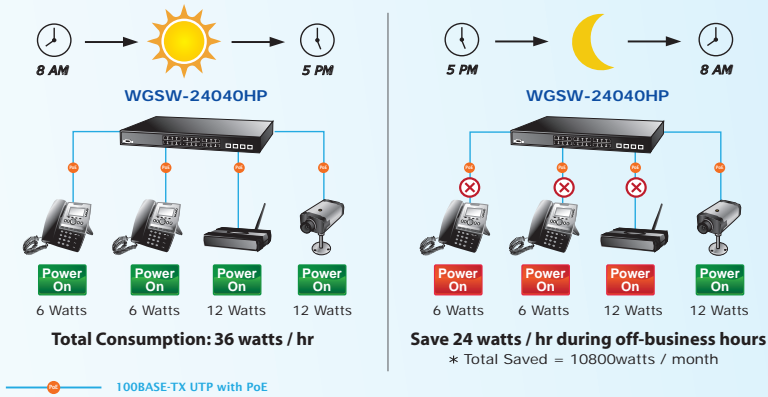| STEP1	STEP2	STEP3
PoE Camera	No Response!	PT PoE Camera
Ping Request	Ping Request	PoE ON OFF
	Checking alive status for 3 times	Restart PoE device if without response
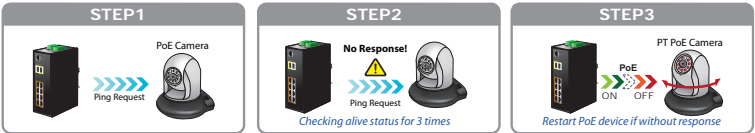
Intelligent Powered Device Alive-Check

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 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
WGSW-24040HP

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
WGSW-24040HP

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

PoE Switch — Normal Temperature

High Priority   Low Priority

PoE Switch — Extremely Hot

High Priority   Low Priority

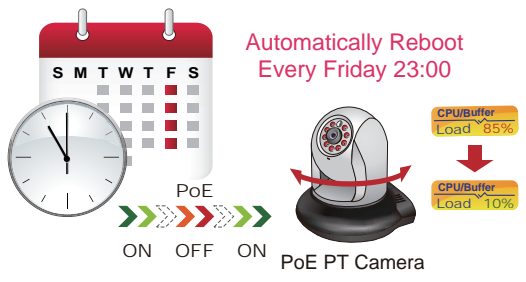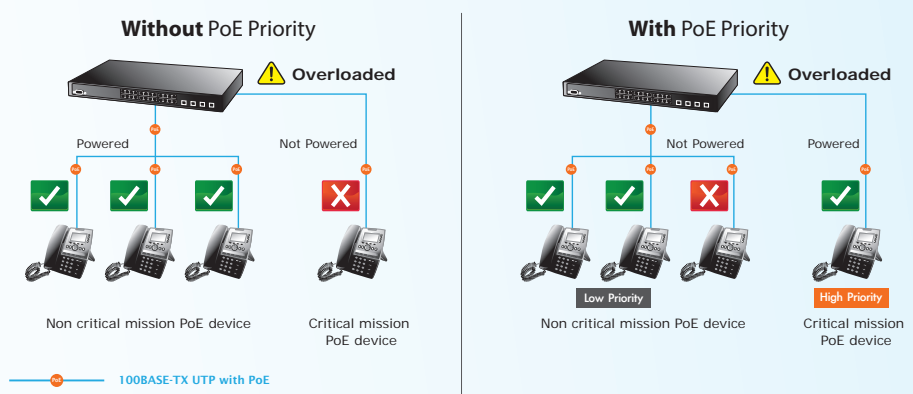After environment temperature becomes normal, PoE switch will automatically turn the device on.

PoE Over Temperature Protection

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

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

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

PoE → **100BASE-TX UTP with PoE**

With PoE Priority

⚠ **Overloaded**

Not Powered   Powered

✔   ✔   ✖   ✔

Low Priority   High Priority

Non critical mission PoE device   Critical mission PoE device

Scheduled Power Recycling

Automatically Reboot Every Friday 23:00

S M T W T F S

CPU/Buffer Load 85%

CPU/Buffer Load 10%

PoE

ON   OFF   ON   PoE PT Camera

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.

PoE Usage Monitoring

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

SMTP / SNMP Trap Event Alert

PoE Switch

E-mail Alert

Malfunction ⚠

IP Camera   IP Camera

PLANET-event from 1020HPT

Though most NVR or camera management software offers SMTP email alert function, PLANET PoE Switches further provides 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.

L2+ Managed 802.3at PoE+ Gigabit Switches

To meet the PoE network applications requiring higher power supply with Gigabit speed transmission, PLANET L2+ Managed 802.3at PoE+ Switches provide user-friendly but advanced IPv6 / IPv4 management interfaces to bring out efficiently centralized High Power PoE management. It offers IPv4/IPv6 VLAN routing feature which allows to cross over different VLANs and different IP addresses for the purpose of having a highly secured, 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
- PD Alive-check/PoE Schedule / Over Temperature Protection
- IPv4 / IPv6 Layer 3 Static Routing
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q /Voice VLAN
- Layer 2 / 3 / 4 Access Control List
- Quality of Service (QoS)
- IEEE 802.1D / 1w / 1s Spanning Tree Protocol
- IGMP Snooping v1, v2 & v3 and Querier mode
- Management Interface – Console / Telnet /
- IPv6 & IPv4 Web / SNMP v1, v2c & v3 / SSL / SSH
- DHCP Snooping / ARP Inspection and IPSource Guard
- DHCP Relay / DHCP Option 82

WGSD-10020HP

- 10/100/1000Base-T with IEEE 802.3af / at PoE injector x 8 Ports
- 100/1000Base-X x 2 Ports
- 150-watt PoE Budget, up to 8 PoE
- Desktop size, 1U Rack-mount

WGSW-20160HP

- 10/100/1000Base-T with IEEE 802.3af / at PoE Injector x 16 Ports
- 10/100/1000Base-T x 4 Ports
- 100/1000Base-X x 4 Ports
- 230-watt PoE Budget, up to 16 PoE
- 19-inch, 1U Rack-mount

WGSW-24040HP / WGSW-24040HP4

- 10/100/1000Base-T with IEEE 802.3af/at PoE Injector x 24 Ports
- 4 100/1000Base-SX/LX DDM TP/SFP Shared Interfaces
- 220 / 440 watt PoE Power Budget
- PD Alive-check/PoE Schedule / Over Temperature Protection
- 19-inch, 1U Rack-mount

WGSW-48040HP

- 10/100/1000Base-T with IEEE 802.3af/at PoE Injector x 48 Ports
- 4 100/1000Base-SX/LX DDM TP/SFP Shared Interfaces
- 600 watt PoE Power Budget
- 19-inch, 1U Rack-mount

XGSW-28040HP

- 10/100/1000Base-T with IEEE 802.3af/at PoE Injector x 24 Ports
- 4 100/1000Base-X mini-GBIC/ SFP slot
- 440 watt PoE Power Budget
- 19-inch, 1U Rack-mount

SGS-5220-24P2X

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

L2 / L4 Managed 802.3at PoE+ Gigabit Switches

The 8 / 24 10 / 1000 Base-T PoE ports in PLANET Managed 802.3at PoE+ Switches support both 802.3af and 802.3at PoE standards and allow users to flexibly connect standard and high powered devices simultaneously. To facilitate power management, the Managed 802.3at PoE+ 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 802.3af / at Power over Ethernet End-Span PSE
- Supports PoE Power up to 30.8 watts for each PoE Port
- Remote PoE Power Management and Monitoring
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- PoE Schedule
- Layer 3 / 4 Access Control List
- Quality of Service (QoS)
- IEEE 802.1D / 1w Spanning Tree Protocol
- IGMP Snooping v1 & v2, MLD Snooping
- Management Interface – Console / Telnet /
- Web / SNMP v1, v2c & v3 / SSL
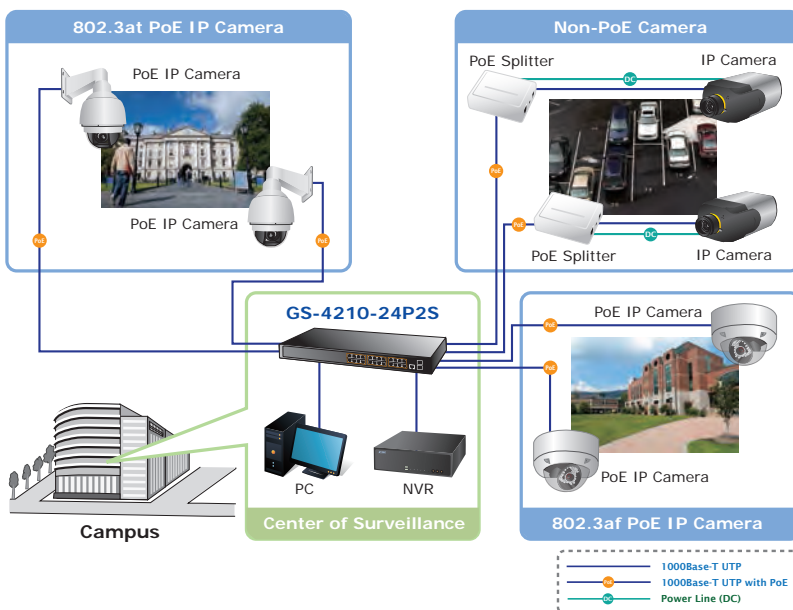
GS-4210-8P2S

- 10/100/1000BASE-T with 802.3at PoE+ x 8 Ports
- 100/1000BASE-X SFP x 2 Ports
- 120-watt PoE Budget, up to 8 PoE
- 13-inch desktop size, 1U Rack-mountable

GS-4210-8P2T2S

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

GS-4210-24P2S

- 10/100/1000Base-T with IEEE 802.3af / at PoE injector x 24 Ports
- 100/1000Base-X x 2 Ports
- 360-watt PoE Budget
- 19-inch, 1U Rack-mount

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

- 10/100/1000Base-T with IEEE 802.3af / at PoE injector x 24 Ports
- Gigabit TP/SFP combo x 4 Ports
- 100X/1000X SFP auto detection
- 220-watt /440-watt PoE Budget19-inch, 1U Rack-mount
- PD Alive Check / Scheduled Power Recycling / Time-based PoE Schedule

GS-4210-48P4S

- 10/100/1000BASE-T with 802.3at PoE+ x 48 Ports
- 100/1000BASE-X SFP x 4 Ports
- 440 watt PoE budget, up to 48 PoE
- Up to 30 watts per PoE port
- PD Alive Check / Scheduled Power Recycling / Time-based PoE Schedule

SGSW-24040HP

- 10/100/1000Base-T with IEEE 802.3af /at PoE Injector x 24 Ports
- 100/1000Base-X x 4 Ports
- 360-watt PoE Budget, up to 24 PoE
- 19-inch, 1U Rack-mount
- Hardware Stacking up to 16 units

SGSW-24040P4

- 10/100/1000BASE-T with 802.3af PoE x 24 Ports
- 100/1000BASE-X SFP x 4 Ports
- 380 watt PoE budget, up to 24 PoE
- Hardware stacking up to 16 units

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

Campus

802.3af PoE IP Camera
PoE IP Camera
PoE IP Camera

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

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

Web-Smart 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, affordable, safe and reliable power solution for SMBs deploying PoE VoIP systems and PoE wireless networks, or requiring enhanced data security and network traffic management.

- Complies with IEEE 802.3at Power over Ethernet plus PSE
- Backward compatible with IEEE 802.3af PoE
- Supports PoE Power up to 30 watts for each PoE+ port
- IEEE 802.1Q VLAN / Port-based VLAN
- Quality of Service (QoS)
- Broadcast Storm Control
- Web Management Interface

Web-Smart 802.3at PoE+ Switches

Web-Smart 802.3af PoE Switches
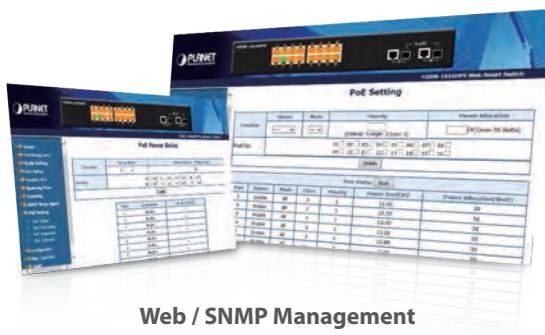
Web / SNMP Management

FGSD-1008HPS

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

FGSW-1816HPS

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

FGSW-2624HPS / FGSW-2624HP4

- 10/100BASE-TX with 802.3at PoE+ x 24 Ports
- 10/100/1000BASE-T x 2 Ports
- 1000BASE-X SFP x 2 Ports
- 220-watt/440-watt PoE budget, up to 24 PoE
- 19-inch, 1U rack-mountable

FSD-804PS

- 10/100Base-TX with IEEE 802.3af PoE Injector x 4 ports
- 10/100Base-TX x 4 ports
- 55-watt PoE Budget, up to 4 PoE
- Desktop size, 1U Rack-moun

FNSW-1608PS

- 10/100Base-TX with IEEE 802.3af PoE Injector x 16 ports
- 10/100Base-TX x 8 ports
- 110-watt PoE Budget, up to 8 PoE
- 19-inch, 1U Rack-mount

FNSW-2400PS

- 10/100Base-TX with IEEE 802.3af PoE Injector x 24 ports
- 125-watt PoE Budget, up to 24 PoE
- Mid-Span PSE
- 19-inch, 1U Rack-mount

FGSW-1828PS

- 10/100Base-TX with IEEE 802.3af PoE Injector x 8 ports
- 10/100Base-TX x 8 ports
- 10/100/1000Base-T x 2 ports
- 1000Base-X x 2 ports
- 110-watt PoE Budget, up to 8 PoE
- 19-inch, 1U Rack-mount

Unmanaged PoE / PoE+ Switches

Centralized Power Distribution for Ethernet Networking

PLANET Unmanaged PoE Switches are ideal for small businesses and workgroups to deploy the PoE network like wireless access points, IP-based surveillance camera or IP phones in any places easily and efficiently. The Unmanaged PoE Switches also provide a simple, cost-effective and non-blocking wire-speed performance for deployment in rack environment, SOHO office or department PoE network application.

Easy and Cost-effective PoE Network Deployment

Each of the PoE injector ports in the Unmanaged PoE Switch can transmit power along with data over a single Ethernet cable to remote powered device at the distance up to 100 meters with no need of software configuration. The Unmanaged PoE Switch will reduce the need of cables and dedicated electrical outlets on the wall, ceiling or any unreachable place. It helps to lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords.

- Complies with IEEE 802.3af or at Power over Ethernet End-Span PSE
- Supports PoE Power up to 15.4 or 30.8 watt for each PoE port
- Remote Power Feeding up to 100m

- Auto detects powered device (PD)
- Auto-negotiation and Auto MDI/MDI-X
- Automatic Address Learning and Address Aging

FSD-504HP

- 10/100Base-TX with IEEE 802.3at PoE Injector x 4 ports
- 10/100Base-TX x 1 port
- 60-watt PoE Budget, up to 4 PoE
- Compact size, easy installation

FSD-804P

- 10/100Base-TX with IEEE 802.3af PoE Injector x 4 ports
- 10/100Base-TX x 4 ports
- 55-watt PoE Budget, up to 4 PoE
- Desktop size, 1U Rack-mount

FSD-808P / FSD-808HP

- 10/100Base-TX with IEEE 802.3af PoE Injector x 8 ports (FSD-808P)
- 10/100Base-TX with IEEE 802.3at PoE Injector x 8 ports (FSD-808HP)
- 125-watt PoE Budget, up to 8 PoE
- Mid-Span PSE
- Desktop size, 1U Rack-mount

FGSD-910P / FGSD-910HP

- 10/100Base-TX with IEEE 802.3af PoE Injector x 8 ports
- 1-port 10/100/1000Base-T for Uplink Connection
- End-Span PSE / 130-watt PoE Budget
- 4K MAC Address Table
- 12-inch Desktop-size metal Case

FNSW-1600P

- 10/100Base-TX with IEEE 802.3af PoE Injector x 16 ports
- 125-watt PoE Budget, up to 16 PoE
- Mid-Span PSE
- 19-inch, 1U Rack-mount

GSD-804P

- 10/100/1000Base-T with IEEE 802.3af PoE Injector x 4 ports
- 10/100/1000Base-T x 4 ports
- 55-watt PoE Budget, up to 4 PoE
- Desktop size, 1U Rack-mount

GSD-808HP / GSD-808HP2

- 10/100/1000Base-T with IEEE 802.3af / at PoE Injector x 8 ports
- 125-watt / 240-watt PoE Budget, up to 8 PoE
- Desktop size, 1U Rack-mount

GSD-908HP

- 10/100/1000Bas-T with IEEE 802.3at PoE injector x 8 ports
- 10/100/1000Base-T x 1 port
- 120-watt PoE Budget, up to 8 PoE
- Compact size, easy installation

GSW-1600HP

- 10/100/1000Base-T with IEEE 802.3af / at PoE Injector x 16 ports
- 220-watt PoE Power Budget
- 8K MAC Address Table / 9K Jumbo Packet Size
- 19-inch, 1U Rack-mount

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

WGS-804HP

- 10/100/1000BASE-T with IEEE 802.3af / at PoE Injector x 4 ports
- 10/100/1000BASE-T x 4 ports
- 120-watt PoE Budget, up to 4 PoE
- Operating temperature : -10~60 degrees C
- Wall-mounted size, easy installation

802.3af PoE Injector Hubs

Quick and Easy PoE Network Deployment

PLANET 802.3af PoE Injector Hubs are 4 / 12 / 24-Port IEEE 802.3af Power over Ethernet injector hubs and comply with IEEE 802.3, IEEE 802.3u and IEEE 802.3af standards. This device supports full 48VDC power for any remote IEEE 802.3af powered device (PD) like Wireless LAN Access Point, IP phone, and IP Camera. The 802.3af PoE Injector Hubs are installed between a regular Ethernet Switch and the powered devices, injecting power without affecting the data transmission. They offer a cost effective and quick solution to upgrading network system to IEEE 802.3af Power over Ethernet system without replacing the existing Ethernet Switch.

Easy Cabling Installation

The 802.3af PoE Injector Hubs are installed between a regular Ethernet Switch and powered devices; 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 802.3af Power over Ethernet system without replacing the existing Ethernet Switch.

- Complies with IEEE 802.3af Power over Ethernet Mid-Span PSE
- PoE Power up to 15.4 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

POE-400

- 10/100Base-TX "Data" Input x 4 ports
- 10/100Base-TX "Data + Power" Output x 4 ports
- 60-watt PoE Budget, up to 4 PoE
- Desktop size, Wall-mount

POE-1200

- 10/100Base-TX "Data" Input x 12 ports
- 10/100Base-TX "Data + Power" Output x 12 ports
- 110-watt PoE Budget, up to 12 PoE
- Web Management Interface
- SNMP Trap
- 19-inch, 1U Rack-mount

POE-2400

- 10/100Base-TX "Data" Input x 24 ports
- 10/100Base-TX "Data + Power" Output x 24 ports
- 220-watt PoE Budget, up to 24 PoE
- Web Management Interface
- SNMP Trap
- 19-inch, 1U Rack-mount

POE-1200G

- 10/100/1000Base-T "Data" Input x 12 ports
- 10/100/1000Base-T "Data + Power" Output x 12 ports
- 190-watt PoE Budget, up to 12 PoE
- Web Management Interface
- SNMP Trap
- PoE Schedule
- 19-inch, 1U Rack-mount

POE-2400G

- 10/100/1000Base-T "Data" Input x 24 ports
- 10/100/1000Base-T "Data + Power" Output x 24 ports
- 380-watt PoE Budget, up to 24 PoE
- Web Management Interface
- SNMP Trap
- PoE Schedule
- 19-inch, 1U Rack-mount

802.3at PoE+ Gigabit Injector Hubs

HPOE Series

PLANET IEEE 802.3af Power over Ethernet Standard has become popular because the PoE demand still grows for increasing network-powered applications. With increasing critical applications, the demand for higher power increases. Hence, the IEEE 802.3at Power over Ethernet standard is defined to allow delivery of maximum up to 30.8 watts of input power to each PoE device. The IEEE 802.3at PoE standard is an ideal solution to fulfilling the high power requirements directly via the RJ-45 Port interface. Compliant with IEEE 802.3at, the 802.3at PoE+ Injector Hub possesses stronger power capability than the existing 802.3af PoE PSE.

- IEEE 802.3at and IEEE 802.3af Power over Ethernet Mid-Span PSE
- PoE power up to 30.8 watts (802.3at PoE) / 15.4 watts (802.3af PoE) 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

HPOE-460

- 10/100/1000Base-T "Data" Input x 4 ports
- 10/100/1000Base-T "Data + Power" Output x 4 ports
- 120-watt PoE Budget, up to 4 PoE
- Desktop size, Wall-mount

HPOE-800G

- 10/100/1000Base-T "Data" Input x 8 ports
- 10/100/1000Base-T "Data + Power" Output x 8 ports
- 300-watt PoE Budget, up to 8 PoE
- Web Management Interface
- SNMP Trap
- PoE Schedule, PD Alive Check
- 19-inch, 1U Rack-mount

HPOE-1200G / HPOE-2400G

- 10/100/1000Base-T "Data" Input x 12 / 24 ports
- 10/100/1000Base-T "Data + Power" Output x 12 / 24 ports
- 360 / 720-watt PoE Budget, up to 12 / 24 PoE
- Web Management Interface
- SNMP Trap
- PoE Schedule
- 19-inch, 1U Rack-mount

PoE Extenders

POE-E Series

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.) CAT5e/6 UTP cable to 200m, 300m or longer distance.

- Extends the range of PoE by an additional 100 meters (328ft.)
- 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 design
- Plug-and-Play

POE-E101

- 10/100Base-TX "Data + Power" Output x 1 port
- 10/100Base-TX "Data + Power" Input x 1 port
- Complies with IEEE 802.3af Power over Ethernet Mid-Span
- Maximum Extender Distance up to 300m

POE-E201

- 10/100/1000Base-T "Data + Power" Output x 1 port
- 10/100/1000Base-T "Data + Power" Input x 1 port
- Complies with IEEE 802.3af / at Power over Ethernet Mid-Span
- Maximum Extender Distance up to 500m

IPOE-E202

- 10/100/1000Base-T "Data + Power" x 1 port
- 10/100/1000Base-T "Data + Power" Output x 2 ports
- Complies with IEEE 802.3af / at Power over Ethernet Mid-Span
- Max. total PoE Budget up to 25 watts

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

802.3at Power over Coaxial Extenders

VC Series

VC-203PT

- Eliminates Power Cabling with PoE over Coaxial
- Re-use Existing Coaxial Cable for IP Camera
- Power over Coaxial up to 1km
- Power Input: External DC or PoE Power Input
- -40 to 75 degrees C Operating Temperature
- Free Fall, Shock, Vibration Industrial Stability

VC-203PR

- Power over Coaxial up to 1km
- Re-use Existing Coaxial Cable for IP Camera
- Power Output: DC Power Output or PoE Power Output
- -40 to 75 degrees C Operating Temperature
- Free Fall, Shock, Vibration Industrial Stability

VC-205-KIT

- Re-use Existing Coaxial Cable for IP Camera
- Power over Coaxial up to 1km
- Power Input: External DC or PoE Power Input (VC-205PT)
- Power Output: PoE Power Output (VC-205PR)
- Configure free, Plug and Play
- -10 to 60 degrees C Operating Temperature
- Free Fall, Shock, Vibration Industrial Stability

802.3af PoE Single-Port Injectors / Splitters

POE Series

PLANET 802.3af PoE Single-Port Injectors follow IEEE 802.3af Power over Ethernet standard to insert DC 48 Voltage into Cat.5 cable, allowing the cable between the Injector and Splitter to transfer data and power simultaneously. The maximum distance between the Injector and Splitter is 100 meters. For the cost saving and power management purpose, the 802.3af PoE Single-Port Injector is the ideal IEEE 802.3af Power over Ethernet device that splits the 48V DC over the Ethernet cable into 5V/12V DC power output. What's more, upon any IEEE 802.3af devices being installed, the 802.3af PoE Single-Port Injector or together with 802.3af PoE Single-Port Splitter can make the connection while migrating or splitting the power and the Ethernet digital packets, such as connecting the 802.3af PoE Single-Port Injector to an IEEE 802.3af complied device, AP or IP phone.

- 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-mount

FTP-802/802S15

- 10/100Base-TX "Data + Power" Output x 1 port
- 100Base-FX "Data" Input x 1 port
- End-Span PSE
- Made of metal

POE-151

- 10/100Base-TX "Data" Input x 1 port
- 10/100Base-TX "Data + Power" Output x 1 port
- Mid-Span PSE
- Made from plastic

POE-152

- 10/100/1000Base-T "Data" Input x 1 port
- 10/100/1000Base-T "Data + Power" Output x 1 port
- End-Span PSE
- Made from plastic

POE-152S

- 10/100/1000Base-T "Data" Output x 1 port
- 10/100/1000Base-T "Data + Power" Input x 1 port
- Power Output: 5V /12 V DC, Max.2A
- Made from plastic

802.3at PoE+ Single-Port Gigabit Injectors / Splitters

POE / IPOE / GTP Series

PLANET 802.3at PoE+ Single-Port Injectors follow IEEE 802.3at Power over Ethernet standard to insert DC 56 Voltage into Cat.5 cable, allowing the cable between the Injector and Splitter to transfer data and power simultaneously. The maximum distance between the Injector and Splitter is 100 meters. For the cost saving and power management purpose, the 802.3at PoE+ Single-Port Injector is the ideal IEEE 802.3at Power over Ethernet device that splits the 56V DC over the Ethernet cable into 12V/24V DC power output.

- Complies with IEEE 802.3af / at Power over Ethernet
- Data and Power Transmission Distance up to 100 meters
- Maximum Power up to 30.8 watts

- Auto-detection of PoE+ IEEE 802.3at Equipment and Devices from being damaged by incorrect installation
- Desktop size, Wall-mount

GTP-805A

- 10/100/1000Base-T "Data + Power" Output x 1 port
- 1000Base-X "Data" Input x 1 port
- Mid-Span PSE
- Made of metal

POE-161

- 10/100/1000Base-T "Data" Input x 1 port
- 10/100/1000Base-T "Data + Power" Output x 1 port
- Mid-Span PSE
- Made from plastic

POE-162S

- 10/100/1000Base-T "Data" Output x 1 port
- 10/100/1000Base-T "Data + Power" Input x 1 port
- Power Output: 12V / 24V DC, Max.5A
- Made from plastic

POE-163

- 10/100/1000Base-T "Data" Input x 1 port
- 10/100/1000Base-T "Data + Power" Output x 1 port
- Mid-Span PSE
- Plastic Compact size, Internal 100-240V AC Power Supply

POE-164

- 10/100Base-TX "Data" Input x 1 port
- 10/100Base-TX "Data + Power" Output x 1 port
- 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
- Supports -40 ~ 75 degrees C operating temperature
- Compact size and wall-mountable

IGTP-805AT

- 100/1000Base-X Single / Multi mode LC (SFP Interface)
- Link Fault Pass-through (LFP) Support
- -40 to 75 degrees C Operating Temperature
- IP30 Metal Case / DIN Rail and Wall Mount Design

IPOE-162

- Complies with 10/100/1000Base-T
- AC 24V / DC 24V to 48V Redundant Power
- -40 to 75 degrees C Operating Temperature
- IP30 Metal Case / DIN Rail and Wall Mount Design

IPOE-162S

- Complies with 10/100/1000Base-T
- 12V / 24V DC Power Output by DIP Switch
- -40 to 75 degrees C Operating Temperature
- IP30 Metal Case / DIN Rail and Wall Mount Design

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

60-watt Ultra PoE Single-Port Injectors / Splitters

POE-17X Series

60-watt PoE Injectors

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-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 Extender

IPOE-E174

- Transmits both Ethernet data and in-line power to 4 remote devices
- 1 PoE input port and 4 PoE output ports
- 52V DC, 25-watt (max.) PoE power output
- IEEE 802.3at / af PoE standard compliant
- Extends Cat.5 cable installations to beyond 100 meters
- No local power required
- Plug and Play, no software required

60-watt PoE Splitter

POE-171S

- 10/100/1000Base-T "Data" Output x 1 Port
- 10/100/1000Base-T "Data + Power" Input x 1 Port
- Up to 50-watt PoE Power Output
- Power Output: 12 / 19 / 24V DC
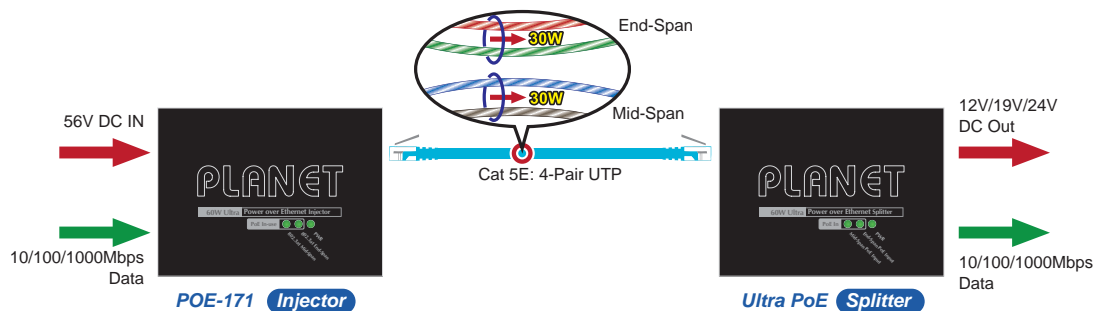
Long Reach PoE L2 / L4 IPv6 Managed Switches
LRP Series

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 30-watt power output per PoC or PoU port
- PD Alive Check / Scheduled Power Recycling / Time-based PoE Schedule
- IEEE 802.1Q VLAN / Q-in-Q / Private VLAN / GVRP
- IEEE 802.1w RSTP, IEEE 802.1s MSTP and Loop Protection
- IPv4 IGMP Snooping v2 and v3 / IPv6 MLD Snooping
- QoS / Voice VLAN / Bandwidth Control
- Layer 2 / 3 / 4 Access Control List
- IPv4 / IPv6 Web interface /Telnet / SNMP v1, v2c and v3 / SSH / SSL Management

LRP-822CS

- Long Reach PoE over coaxial x 8 Ports
- 100/100/1000BASE-T x 2 Ports
- 100/1000BASE-X SFP x 2 Ports
- 220-watt PoE budget, up to 8 Long Reach PoE
- Up to 30 watts per PoC port
- Power over coaxial up to 1km

LRP-1622CS

- 30-watt Long Reach PoE over coaxial x 16 Ports
- 100/100/1000BASE-T x 2 Ports
- 100/1000BASE-X SFP x 2 Ports
- 440-watt PoE budget, up to 16 Long Reach PoE
- Power over coaxial up to 1km

LRP-822US

- Long Reach PoE over UTP x 8 Ports
- 100/100/1000BASE-T x 2 Ports
- 100/1000BASE-X SFP x 2 Ports
- 220-watt PoE budget, up to 8 Long Reach PoE
- Data and Power over UTP up to 500m

LRP-1622US

- 30-watt Long Reach PoE over UTP x 16 Ports
- 100/100/1000BASE-T x 2 Ports
- 100/1000BASE-X SFP x 2 Ports
- 440-watt PoE budget, up to 16 Long Reach PoE
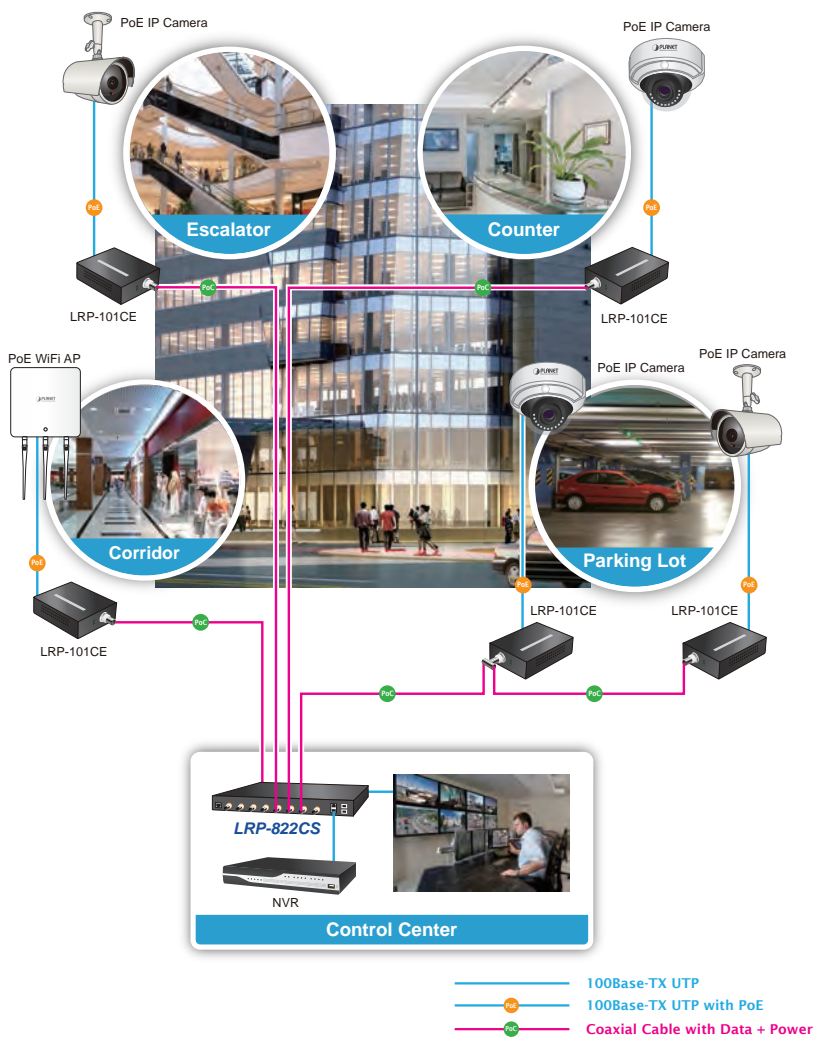- Data and Power over UTP up to 500m

LRP-422CST

- -20~75 degrees C operating temperature
- Long Reach PoE over coaxial x 4 Ports
- 100/100/1000BASE-T x 2 Ports
- 100/1000BASE-X SFP x 2 Ports
- 48~56V DC input, 120-watt PoE Budget, up to 4 Long Reach PoE
- Power over coaxial up to 1km

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Long Reach PoE Injectors / Extenders

LRP-101 series

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

Escalator

PoE IP Camera

Counter

LRP-101CE

LRP-101CE

PoE WiFi AP

PoE IP Camera

Corridor

PoE IP Camera

Parking Lot

LRP-101CE

LRP-101CE

LRP-101CE

LRP-822CS

NVR

Control Center

100Base-TX UTP
100Base-TX UTP with PoE
Coaxial Cable with Data + Power

LRP-101CH

Single Port Injector

- 1-Port BNC with passive PoE PSE
- 1-Port 10/100TX RJ45 with IEEE 802.3at PoE+ Input
- -20 ~ 70 degrees C wide operating temperature

LRP-101UH

- 1-Port UTP with passive PoE PSE
- 1-Port 10/100TX RJ45 with IEEE 802.3at PoE+ Input
- -20 ~ 70 degrees C wide operating temperature

LRP-101CE

Single Port Extender

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

LRP-101UE

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

LRP-104CE

- 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 wide operating temperature
- Power over coaxial up to 1km

Full Range
Fiber Optic Network Solution

Core Network	Edge Network

▶ Fiber Switches
MGSW-28240F / MGSW-24160F

10G Fiber → Edge CPE — *Campus*

▶ Media Converter Chassis
MC-1500R

1G Fiber → PoE Media Converter — *Traffic*

▶ GEPON
EPL-2000

OLT

1.25G Fiber

Splitter

ONU

Home

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. It also supports standard SNMP, TS-1000 / 802.3ah OAM protocol and can be managed via any standard management software.
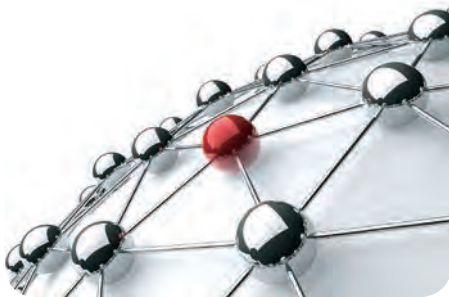
Extension & Expansion

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 up 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.

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 10/100Mbps Fast Ethernet port and one RS-232 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 deploy 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

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

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Wireless LAN

IP Surveillance

IP Telephony

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Digital Home

Network Peripheral

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 / FST-81x series, extends communication distance with highly stable performance via fiber optic cable. The FST-80x / FST-81x 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 RJ-45 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 15km

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

Media Converter Chassis

Offering more capacity to the converters in one chassis, the 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 PLANET Fast Ethernet, Gigabit Ethernet or VDSL2 Converters in one chassis. Equipped with 7 / 15 slots in the 10" / 19" rack, it saves more spaces for Fiber-Optic wiring, simplifies the structure and eases the maintenance of media conversion. One fan with LED indicators for the system cooling is 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. The 15 slots in the 19" rack save more spaces for fiber-optic wiring, simplify the structure and ease the maintenance of media conversion. Two fans with LED indicators for the system cooling are 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, 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

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Gigabit Ethernet Media Converters

For the flexibility of all kinds of 10/100/1000Mbps Ethernet Media on RJ-45 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 high 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-802, GT-802S, GT-805A and GT-806A/B series and GT-1205A Gigabit Ethernet Media Converter support Auto MDI/MDI-X on its TP port. The GT-802, GT-802S, GT-805A and GT-806A/B series provide 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 net. 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

Fast Ethernet Media Converters

PLANET FT-80x series is 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 1310 nm 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 net. 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. The difference with the other one-port channel media converter is the Redundant Media Converter. 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 with 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, efficiently and inexpensively.

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

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Managed Standalone Media Converters

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 RJ-45 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 Ethernet signal allows three types of segments to connect easily, efficiently and inexpensively. 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 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 from 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 to 16K bytes
- TS-1000 OAM / IEEE 802.3ah OAM / Loop Back Test
- External DC 5V 2A power supply
- Compact in size, easy installation
- FCC Class A, CE Class A
- 10-/19-inch chassis compatibility (MC-700 / MC-1500 / MC-1500R / MC-1500R48)
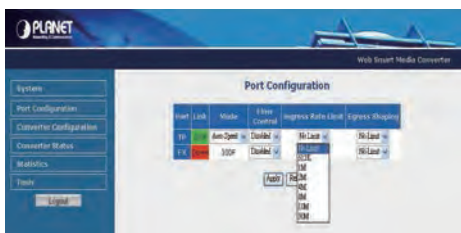
Remote WEB Management

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

GT-902S
- One 1000Base-LX port with SC connector
- Supports Fiber Optic up to 10km

GT-905A
- One 1000Base-SX / LX SFP slot
- Supports Fiber Optic up to 120km (depending on SFP module)

GT-906A15
- One 1000Base-LX port with WDM connector
- Supports Fiber Optic up to 15km

GT-906B15
- One 1000Base-LX port with WDM connector
- Supports Fiber Optic up to 15km

GT-906A60
- One 1000Base-LX port with WDM connector
- Supports Fiber Optic up to 60km

GT-906B60
- One 1000Base-LX port with WDM connector
- Supports Fiber Optic up to 60km

VDSL2 Media Conversions

PLANET VC-201A, VC-202A and VC-231 are an Ethernet-over-VDSL2 media converter with high performance. It is based on two core networking technology, Ethernet and VDSL2 (Very-high-data-rate Digital Subscriber Line 2). The VDSL2 technology offers the absolutely fastest data transmission speeds over existing copper telephone lines without the need of rewiring.

The VC-201A, VC-202A and VC-231 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 RJ-11 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 RJ-11 connector for VDSL2 connection with up to 1.4km distance support

45
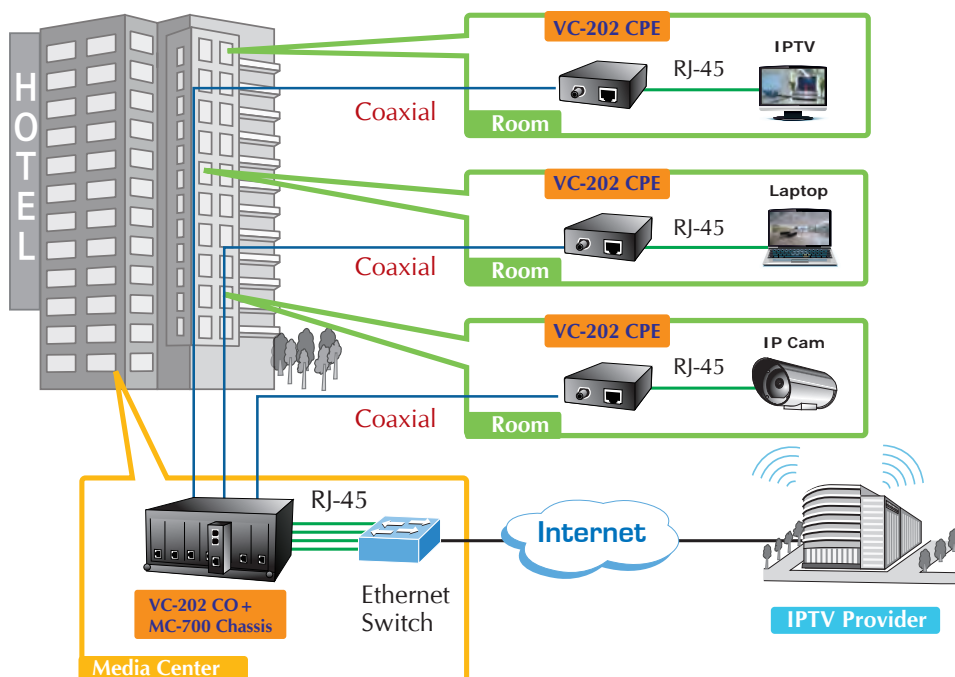
Serial over Ethernet Media Conversions

PLANET ICS-10x Media Converter / Device Server series can convert Serial RS-232 / RS-422 / RS-485 communication interface over Fast Ethernet networking. There are RJ-45 and SC type connectors and single-mode / multi-mode media for customers needs. Ethernet signal allows two types of segments to connect easily, efficiently and inexpensively. 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 Web Smart media converter 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
- Cost effective solution for RS-232 to Ethernet application
- Choice of fiber connectors from 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)

ICS-100
- One RS-232 / RS-422 / RS-485 port
- 1-Port 10/100Base-TX, auto MDI / MDIX

ICS-102
- One RS-232 / RS-422 / RS-485 port
- 1-Port 100Base-FX SC, 2km Fiber Optic

ICS-102S15
- One RS-232 / RS-422 / RS-485 port
- 1-Port 100Base-FX SC, 15km Fiber Optic

ICS-105A
- One RS-232 / RS-422 / RS-485 port
- 1-Port 100Base-FX SFP Fiber Optic slot

Standalone Installation - Device Gateway Server
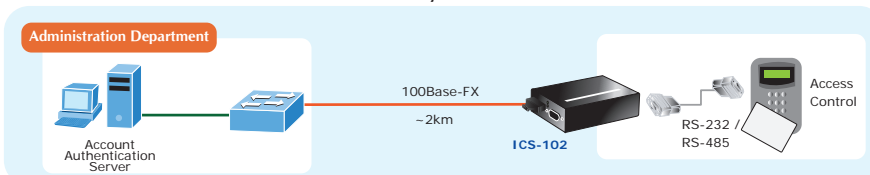
Pair Connection - Local to Remote Serial Extension
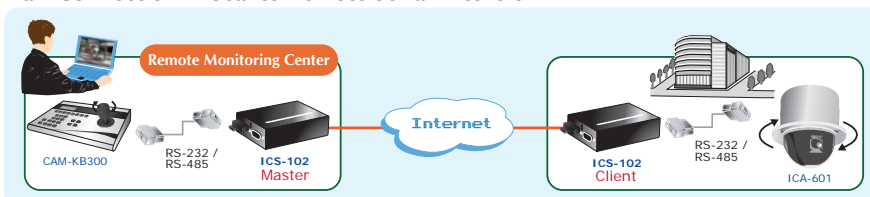
Plastic Optical Fiber Converters

PLANET FT-807 / FT-807L is a 10/100Base-TX shielded twisted pair (STP) to Fast Ethernet 100Base-FX fiber converter. It supports full-duplex operations at its fiber-optic interface in the form factor of SMI (Small Multimedia Interface) interface. The FT-807 automatically adapts to the highest level of performance supported by the device connected to the STP port.

The SMI (small multimedia interface) is one kind of POF (plastic optical fiber) interface that can be suitable for low-cost and high-speed data transmission. The SMI patch cord meets the IEEE 1394b specification that can transmit data at S200 (250Mbps) speed for 50 meters; the distance range of TP port is 100 meters. The FT-807 / FT-807L will make the new generation multimedia life more interesting and easy to install.

- Complies with IEEE 802.3, IEEE 802.3u 10/100Base-TX, 100Base-FX standard
- RJ-45 TP to POF (Plastic Optic Fiber interface) conversion
- IEEE 1394b SMI Patch Cord, up to 50m
- Low-cost and High-speed Data Transmission
- Compact size and easy installation

FT-807

- IEEE 802.3u 10/100Base-TX, 100Base-FX
- RJ-45 TP to POF (Plastic Optical Fiber Interface) conversion
- SMI (Small Multimedia Interface) POF Connector

FT-807L

- IEEE 802.3u 10/100Base-TX, 100Base-FX
- RJ-45 TP to POF (Plastic Optical Fiber Interface) conversion
- Optolock plug-less POF interface

Video over Fiber Optic Converters

In the analog video over optic fiber transmission applications, the demand for different optical fiber options increases all over the world. To satisfy the demand, PLANET VF-10x-KIT Video over Fiber converter models for system integrators and security service providers are available with multi-mode or single-mode fiber patch cord according to their system requirements.

The VF-10x series includes different types of fiber connectors such as ST, SC, FC and WDM SC, which enable CCTV applications to replace the traditional coaxial cable with stable fiber cable performing more efficiently. Just choose the most suitable Video over Fiber converter kit to build the CCTV network or extend the analog surveillance system.

- High-speed synchronous digital transmission technology
- 8 bit Video Signal digital sampling
- Data Type: RS-485
- PAL, NTSC, SECAM compatible
- 20km max. transmission distance
- Safe transmission guaranteed under poor electromagnetic environment
- Wall mounting and DIN-Rail supported
- Compact in size, easy installation
- FCC Part 15 Class A, CE
- 10-/19-inch chassis compatibility (MC-700 / MC-1500 / MC-1500R / MC-1500R48)
- 10-/19-inch chassis compatibility (For VF-10X Series)

VF-101-KIT

- Video and Data over fiber transmission
- ST multi-mode fiber connector
- 2km transmission distance

VF-102-KIT

- Video and Data over fiber transmission
- FC single-mode fiber connector
- 20km transmission distance

VF-102SC-KIT

- Video and Data over fiber transmission
- SC multi-mode fiber connector
- 2km transmission distance

VF-102S15-KIT

- Video and Data over fiber transmission
- SC single-mode fiber connector
- 15km transmission distance

VF-106-KIT

- Video and Data over fiber transmission
- SC / WDMi single-mode fiber connector
- 20km transmission distance

VF-402-KIT

- Fiber optic transmission of four video signals on one fiber with RS-485 data signals
- Industrial level of operating under a wide temperature range of -25 to 75 degrees C

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

High-Performance GEPON Solution for FTTx
First Choice of Triple Play Application

▶ EPL-2000

▶ EPN-103

GEPON SFU ONU

IPTV | Internet

▶ EPN-402NV

GEPON 11n Wi-Fi ONU

Online Gaming | VoIP via Wi-Fi

PLANET Last Mile Transmission Solution provides not only CO (Central Office) side of equipment for ISP but also CPE (Customer Premises Equipment) side of device for end users. The perfect PLANET Last Mile Transmission Solution provides the excellent bandwidth to satisfy the triple play devices for home entertainment and communication.

Delivering High-demand Service Connectivity for ISP/ Triple Play Devices

With the capability of 100/100Mbps symmetric data transmission, the PLANET VDSL2 Solution enables many multi-media services to work on the Internet, such as VOD (Video on Demand), Voice over IP, Video phone, IPTV, Internet caching server, distance education, and so on.

Dual Band High-Speed 802.11n Wireless Connectivity

With built-in 2.4GHz IEEE 802.11b/g/n or 5GHz 802.11a/n wireless network capability, the PLANET Wireless VDSL2 Router allows any computer and wireless-enabled network device to connect to it without additional cabling. The radio coverage is also doubled to offer high speed wireless connection even in spacious offices or houses.

1.25Gbps High Speed and 20km Long-Distance Coverage for Triple Play Services

PLANET GEPON solution provides up to 1.25Gbps high bandwidth for both upstream and downstream, and up to 20km long-distance coverage between equipment nodes for network deployment. It can fulfill the demand of increasing home multimedia and entertainment needs.

Manage your office from your mobile device

Users have an IP PBX phone number including the 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 help mobile users deliver whether they are in or out of the office.

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

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-2000

GEPON OLT

- Optical split ratio: Up to 1:64
- 2-PON interface, 2 x GbE SFP, 1 x MGT port Supports up to 8K MAC address table

EPN-103

GEPON ONU

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

EPN-402NV

GEPON Wi-Fi ONU

- 300Mbps 802.11n wireless connectivity
- 2 FXS ports can be easily integrated with general Voice over IP system
- 802.1Q VLAN and IGMP proxy for IPTV applications
- Supports IPv6/IPv4 Dual Stack Network, NAT, DMZ and Virtual Host

EPL-SPT-32 / EPL-SPT-64

GEPON Splitter

- 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
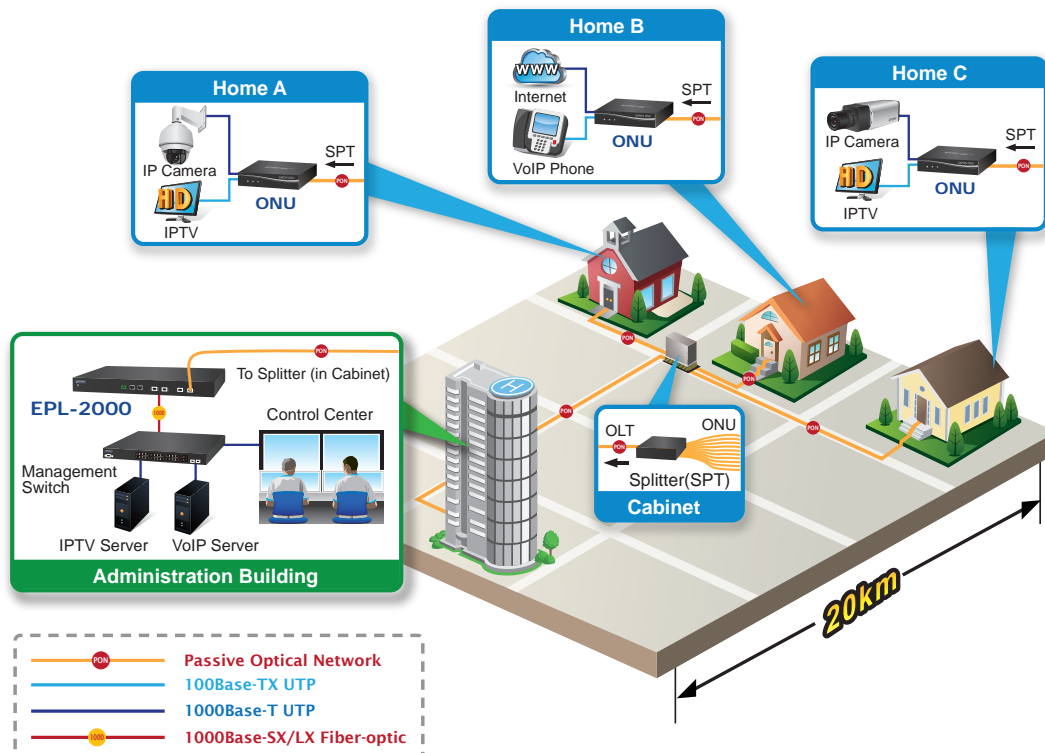
VDSL2 IP DSLAM / CO Switches

XDL-2420R

VC-820M

VC-820M

8-Port VDSL2 CO + 2G TP/SFP Combo
Managed Switch

• 8-port VDSL2 CO subscriber interface

XDL-2420R

24-Port VDSL2 / ADSL2+ with 2-Port
Gigabit TP/SFP Combo IP DSLAM

• 24 VDSL2 / ADSL2+ subscriber interfaces
  with built-in POTS splitter
• Two Gigabit TP/SFP combo ports
• Supports VDSL2 profile up to 30a
• Supports ADSL / ADSL2 / ADSL2+ standard
• Supports dual power redundancy
• Supports environment detection and alarm
• Supports IGMP v2 / Q-in-Q VLAN / ACL

Perfectly Designed for FTTx Last Mile Applications

PLANET VDL-24240MR series is a telecom-level, high performance VDSL2 IP DSLAM (Digital Subscriber Line Access Multiplexer) with 24-port VDSL2, 2-port Gigabit TP / SFP combo interfaces, hot-swappable AC/DC redundant power system and robust Layer 2+ switching features. The VDL-2420MR series 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 VDL-2420MR helps service providers to easily provide high bandwidth demanded 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

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

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 Telecom, ISP (Internet Service Provider), SI (System Integration), IP Surveillance provider, etc. It is based on two core networking technology - Ethernet and VDSL2 (Very-high-data-rate Digital Subscriber Line 2). The total VDSL2 solution offers the absolutely fastest data transmission speeds over existing cooper telephone lines without the need of rewiring. The ideal xDSL technology provides the best solution in the last mile.

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
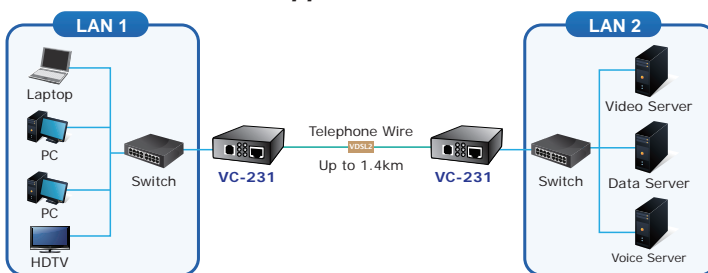
VDSL2 Point to Multi-Point Application
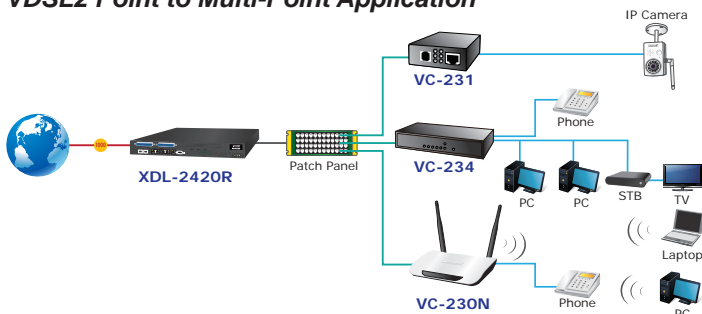
VC-201A

10/100TX over VDSL2 Media Converter

- Cost-effective VDSL2 CO / CPE bridge solution
- Selectable target data rate and target SNR margin

VC-202A

10/100TX over Coaxial Media Converter

- Coaxial to copper media converter
- 1 x BNC port to connect with coaxial cable
- 1 x 10/100Base-TX copper
- Long reach Ethernet distance up to 3.0km

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 RJ-45

VC-234

High Bandwidth 4-Port 10/100 TX to VDSL2 Bridge

- VDSL2 ITU-T G.993.2 30a profile
- 100/100Mbps Download/Upload @1000ft
- 4-port 10/100Base-TX RJ-45

VDR-300NU

300Mbps Dual Band Wireless VDSL2 Router

- Built-in VDSL2 Modem
- G. Vectoring
- Multiple WAN Connections and 3G WAN Backup
- Selectable Dual Band Wireless
- TR-069 compliant
- DLNA Media Server

ADSL 2/2+ IP DSLAMs

PLANET ADSL2/ADSL2+ mini IP DSLAM with 1000Base-T uplink Interface offers scalable and easy deployment for the network with small ADSL environment. With the built-in POTS splitter subscriber ports, the IP DSLAM performs a cost-effective solution for network service providers to offer multiple subscribers excellent services

- DMT data rate: Downstream up to 25 Mbps / Upstream up to 3Mbps
- Local RS-232 CLI and Ethernet SNMP / Telnet / SSH Management
- Supports IPSec / L2TP / PPTP VPN Pass-through
- Supports IEEE 802.1q Tag-based VLAN and Protocol-based VLAN
- Layer 2 / 3 Filtering based on MAC, IP, Protocol, Port Number and Ether Type
- Access Control List by MAC / IP / Protocol / Port number

- Traffic prioritization (802.1p)
- Supports IGMP Snooping / Proxy per IGMP v1, v2, and v3
- Temperature Monitoring and System Overheating Trap Functionality
- Supports IEEE 802.1d Spanning Tree Protocol and IEEE 802.3ad Link Aggregation

IDL-2402

- 24-port ADSL/ADSL2/ADSL2+ subscriber interface with built-in POTS splitter
- 1000Base-T uplink interface

IDL-4802

- 48-port ADSL / ADSL2 / ADSL2+ Subscriber interface with built-in POTS splitter
- 2 x 1000Base-T or 2 x mini-GbE Uplink interface

ADSL 2/2+ Routers

PLANET ADSL 2/2+ Router provides office and residential users with the ideal solution to sharing the high-speed ADSL 2/2+ broadband Internet connection on one Ethernet port. It can provide downstream transmission rates up to 24Mbps and upstream transmission rates up to 3.5Mbps.

- Compliant with ADSL 2+ standard
- Virtual Server and DMZ
- VPN Pass-through

- SPI Firewall
- TR-069 ready

ADE-3400

- Built-in 1-port switch with auto MDI/MDI-X capability

ADN-4101

- Built-in 4-port switch with auto MDI/MDI-X capability
- IEEE 802.11n wireless LAN compliant
- WEP / WPS support
- Multiple SSIDs
- WEP, WPA, WPA2,and 802.1x support

G.SHDSL

GRT-402

- G.SHDSL Bridge Router with 4-port Switch
- High-speed symmetric data transmission, data rate up to 11.4 Mbps at 7.7km

GRT-101

- G.SHDSL Bridge Router with 1-port Switch
- High-speed symmetric data transmission, data rate up to 5.7 Mbps at 7.7km

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

802.11ac

New Generation
Ultra High Speed Wireless Solution

1750Mbps
Wall Mount Wi-Fi AP
WDAP-1750AC

1200Mbps
Ceiling Mount Wi-Fi AP
WDAP-C7200AC

1200Mbps
Gigabit Wi-Fi Router
WDRT-1200AC

750Mbps
Desktop Wi-Fi Router
WDRT-750AC

433Mbps
Wi-Fi USB Adapter
WDL-U600AC
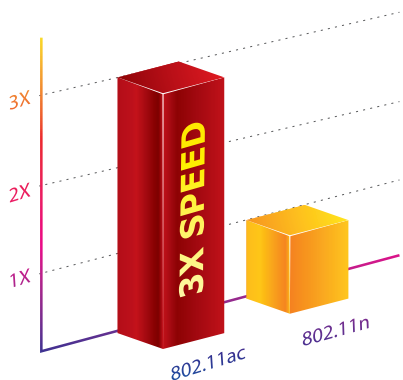
802.11ac Ready for Next-Generation Wireless Connection

PLANET 802.11ac Wireless Solution provides ultra high speed wireless transmission for enterprise, SOHO and home networking deployment. With its outstanding stability of high-speed wireless transmission and enhanced reliability, the 802.11ac Wireless Solution can provide users with excellent multimedia streaming through their mobile devices anywhere, anytime in the home and office.

Centralized Management

When service providers deployed a large scale and number of wireless APs in buildings such as Hotel, PLANET wireless centralized management helps service provides and IT managers control all wireless APs at the same time in both software and hardware.

Reliable Wireless Data Transmission

PLANET Outdoor Wireless Solution provides higher transmit power, better performance, wider coverage and stable connection in all kinds of outdoor applications.

All Weather Protection for Outdoor Environment

By designing with IP67 and aluminum rugged strong housing and wide operating temperature in -30 to 75 degrees C, the PLANET Outdoor Wireless Solution can perform normally under rigorous weather conditions including heavy rain, wind and snow.

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Enterprise Wi-Fi Networking

Multiple Network Technologies for Incredibly 1750Mbps High-Speed Connection

The WDAP-1750AC supports IEEE 802.11a/b/g/n 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 routers, the WDAP-1750AC offers faster transmission speed and more convenient method to enable or disable wireless signal.

WDL-U600AC
433Mbps 802.11ac Dual Band Wireless USB Adapter

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

WDAP-C7200AC
1200Mbps 802.11ac Dual Band Ceiling Mount Wireless Access Point

WPG-210N
Wireless Presentation Gateway

Wireless Home and SOHO

PLANET makes your home networking easier and more compact with 802.11n solution. Simply install an 802.11n compatible wireless router, WNRT-617G, in the house, and its wide coverage and stable quality will definitely offer you a seamless and impressed wireless roaming experience. From now on, you can surf the web, enjoy multimedia streaming, share files, and make VoIP calls wirelessly without any limitation.

WNRT-617G
150Mbps 802.11n Wireless 3G / 4G Router

WNL-U555HA
High Power Wireless Compact USB Adapter

WNAP-1260
Wireless Portable Router

ICA-W1200
Full HD Wireless Cube IP Camera

802.11ac Dual-Band Wireless Solutions

2.4G & 5G Simultaneous Dual Band Wireless Connectivity

PLANET 802.11ac Wireless LAN Solution including wireless APs, routers, and adaptors, delivers high-speed and high-quality dual band technology to avoid signal interference and ensure the best Wi-Fi performance. 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.

- Complies with IEEE 802.11a/b/g/n/ac Standard
- 2.4G and 5G simultaneous dual band wireless connectivity
- Maximal wireless speed Up to 450+1300 Mbps
- All Gigabit Ethernet ports and Wi-Fi ON / OFF switch

- Supports dynamic IP / Static IP / PPPoE / PPTP / L2TP
- Supports 802.1x, 64 / 128-bit WEP, WPA/WPA2, WPA-PSK / WPA2-PSK
- Supports Wi-Fi Protected Setup (WPS)
- Powerful Firewall and Complete Access Control Functions

WDRT-1200AC

802.11ac Wireless Router

- Next-generation 11ac Wi-Fi up to 1200Mbps
- Simultaneous dual-band connectivity in 2.4GHz 300Mbps and 5GHz 867Mbps
- 4 internal antennas for better performance
- Backward compliant with IEEE 802.11 a/b/g/n
- Built-in 4-port 100/1000 Mbps Gigabit switch
- One USB 3.0 port supports storage and DLNA
- Supports DHCP server, DDNS, DMZ, virtual server and port triggering.

1200 Mbps

WDRT-750AC

802.11ac Wireless Router

- Dual-band (2.4GHz & 5GHz) Wireless technology capable of up to 300+433Mbps data rate
- Quick and easy connection for WPS
- Supports Dual-SSID to allow users to access different networks through one single AP
- Increases Wi-Fi performance by doubling of 11n channel width
- Supports Bandwidth Control (QoS) based on different local IP addresses

750 Mbps

WDRT-731U

802.11n Wireless Router

- LAN4 supports IPTV pass-through
- Built-in 5dBi High Gain Antennas
- Easy to share storage and printer by USB port
- Supports Guest Network

600 Mbps

WDAP-1750AC

802.11ac Wireless AP

- Next-Generation 11ac Wi-Fi up to 1750Mbps
- Simultaneous Dual Band connectivity in 2.4GHz 450Mbps and 5GHz 1300Mbps
- Gigabit Ethernet ports with one port 802.3at PoE / PD and one port 802.3af PoE / PSE support
- Built-in Radius Server enabling enterprise-class security mode
- Supports 802.1Q VLAN tagging over WDS and 32 multiple-SSID
- Flexible SMA type antenna connector and USB 2.0 Port for File Sharing

1750 Mbps

WDAP-C7200AC

802.11ac Wireless AP

- Next-generation 11ac Wi-Fi up to 1200Mbps
- Dual-band (2.4GHz & 5GHz) Wireless technology capable of up to 300+867Mbps data rate
- One 10/100/1000Mbps LAN port, 802.3at PD supported
- Multiple SSID, 802.1Q VLAN
- Multiple operation modes: AP, Client, WDS, Universal Repeater

1200 Mbps

WDL-U600AC

802.11ac Wireless Adapter

- Next-generation 11ac Wi-Fi up to 433Mbps
- 2.4GHz & 5GHz Dual-band Wireless Connectivity
- Backward compatible with 802.11a/b/g/n Wireless Networks
- USB 2.0 Attached Interface, Plug & Play
- One touch Network Connection with the WPS Button
- Software AP function for Wi-Fi sharing
- Windows XP, Win7, Win8, Linux, and Mac OS X Ready

600 Mbps

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

2.4GHz Wireless AP Routers

WNRT-633

- Wireless N speed up to 300Mbps
- IEEE 802.11n, 802.11b/g standard compliant
- Gigabit Ethernet ports for high-speed WAN/ LAN connection
- Multiple operating modes: AP/ Client/ WDS / AP+WDS / WISP
- 5dBi high-gain antennas with flexible SMA-type connector
- Wi-Fi Protected Setup (WPS)
- Powerful firewall and complete Access control functions

WNRT-617 / WNRT-627

- Complies with IEEE 802.11n, 802.11b/g standard
- 5dBi high gain antenna and WDS support
- Supports 64 / 128 / 152-bit WEP, WPA / WPA2-RADIUS, and WPA / WPA2-PSK
- Easy smart setup wizard

WNRT-300

- Portable and pocket-sized design
- Complies with 802.11n, 802.11b/g standard
- Hardware switchable operation modes: Router / AP/ Client
- Built-in rechargeable Li-ion battery
- Supports Multiple-SSID and 802.1Q VLAN

3G / 4G Wireless AP Routers

3G / 4G Broadband Sharing

PLANET Wireless 3G / 4G Broadband Router provides home, SOHO and Business users with a reliable and cost effective wireless solution by featuring 3G / 4G / WAN Internet access and high speed IEEE 802.11n wireless transmission. PLANET Wireless 3G / 4G Broadband Router offers more powerful and flexible capability for business demands and easier way for users to share an instant wireless network service via 3G / 4G service wherever at Home, Hotspot, or in public places like transportation, outdoor events, etc.

- 3G / 4G mobile Internet connection
- Compliant with IEEE 802.11n wireless technology up to 300Mbps data rate
- Supports multiple operation modes

- Supports Port Forwarding, Port/ IP/ MAC/ URL Filtering
- Supports WPS, WMM, IAPP

WNRT-617G

- Dual WAN Interfaces: cable or wired DSL service and 3G / 4G mobile connection
- 64 / 128 / 152-bit WEP, WPA-TKIP(PSK), WPA2-AES(PSK), 802.1x
- Easy smart setup wizard

WNRT-300G

- Portable and pocket-sized design
- Dual network interfaces:
  - Cable or wired xDSL service
  - UMTS / HSPA / Mobile Network
- Hardware modes: Router/AP/Client
- Built-in rechargeable Li-ion battery

VDR-300NU

300Mbps Dual Band Wireless VDSL2 Router

- Built-in VDSL2 Modem
- G. Vectoring
- Multiple WAN Connections and 3G WAN Backup
- Selectable Dual Band Wireless
- TR-069 compliant
- DLNA Media Server

Wireless Access Points / Range Extenders

Ideal High-speed Wireless Range Extender

To minimize the effort of wireless network deployment, PLANET provides ideal Wireless Range Extension solution that features 802.11n MIMO technology. With the high speed transmission rates, PLANET Wireless Range Extender is easy to integrate the wireless devices with existing wired network. Compared with general wireless AP routers, PLANET Wireless Range Extender offers more powerful and flexible capability for home and business demands to access Internet and extension of wireless network range.

- IEEE 802.11n, 802.11b/g standard compliant
- High-speed wireless data rate
- Multiple operating modes: AP / Repeater / WDS PtP / WDS PtMP

- Advanced wireless security
- User-friendly Web management interfaces

Extended Wireless Coverage Eliminates Dead Spot

WNAP-1110

- Up to 150Mbps data rate
- Wi-Fi Protected Setup (WPS)
- 64/128/152-bit WEP, WPA(PSK), WPA2(PSK)
- AP(Multi-SSID)/Client/Repeater/WDS PtP/ WDS PtMP
- WMM and SNMP v1/v2c

WNAP-1260

- Up to 300Mbps data rate
- Compact-sized and wall plug design
- Built-in electrical power socket
- Supports Multiple-SSID
- Hardware modes: AP / Repeater / Client
- One-touch Wi-Fi Protected Setup (WPS)

WNAP-W2200

- Wireless N speed up to 300Mbps
- IEEE 802.11n, 802.11b/g standard compliant
- USB charge port offers USB charging straight from the wall
- IEEE 802.3af Power Over Ethernet design
- In-wall design, stylish and practical
- Management Utility and SNMP supported

WNAP-C3220

- Sleek stylish and ceiling mountable design
- Up to 300Mbps data rate
- Gigabit LAN port with 802.3af PoE compliant
- Management Utility and SNMP supported
- Multiple SSIDs, 802.1Q VLAN

WDAP-C7400

- High power, wider coverage, better performance
- 2.4G and 5G simultaneous dual band wireless connectivity
- Maximal wireless speed up to 450+450Mbps
- Complies with IEEE 802.11a/b/g/n standard
- 10/100/1000Mbps Ethernet port, 802.3at PD supported
- Sleek stylish and ceiling mountable design

WDAP-C7200AC

- Next-generation 11ac Wi-Fi up to 1200Mbps
- Dual-band (2.4GHz & 5GHz) Wireless technology capable of up to 300+867Mbps data rate
- One 10/100/1000Mbps LAN port, 802.3at PD supported
- Multiple SSID, 802.1Q VLAN
- Multiple operation modes: AP, Client, WDS, Universal Repeater

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Wireless Access Point Controllers

When service providers deploy a large scale and number of wireless APs in buildings such as hotels, villas, resorts or any large area deployment, PLANET wireless Access Point Controller Series helps service providers and IT managers control all wireless APs at the same time.

- Locally maintains configuration profiles for all managed APs
- Centrally monitors all managed APs' statuses and associated client list
- AP alive check for automatic operating status diagnostic

- IPv4/IPv6 dual stack management
- L2/L3/L4 ACL and MAC access control
- 802.1Q VLAN, 802.1x user authentication and Loop protection

WAPC-1232HP

- Automatically discovers managed APs, up to 32 units
- Eight built-in 802.3at PoE+ ports to directly manage AP power control
- 240-watt PoE budget

WAPC-2864HP

- Automatically discovers managed APs, up to 64 units
- 24 built-in 802.3at PoE+ ports to directly manage AP power control
- 4 10G SFP+ uplink interfaces
- IPv6 / IPv4 Layer 3 Static Routing
- 440-watt PoE budget

802.11ac / 802.11n Wireless Adapters

High-speed 802.11ac Wireless Experience

PLANET WDL-U600AC offers a reliable and cost effective wireless extension solution. It adopts IEEE 802.11ac. technology and is backward compatible with IEEE802.11n, IEEE 802.11b and 802.11g.

- Wi-Fi Protected Setup (WPS) support
- Supports WEP 64/128, WPA, WPA-PSK, WPA2, WPA2-PSK (TKIP/AES encryption)
- Supports QoS-WMM (WiFi Multi-media) function / WMM-PS

- Supports Software AP mode
- USB 2.0 / 1.1 attached interface
- Supports the most popular operating systems including Windows 2000, XP, Vista, Win 7, Win 8 / 8.1, Linux, and MAC OS X

WNL-U554A

- 150Mbps 802.11n MIMO technology
- Mini-size design
- 2.4GHz ISM band, unlicensed operation
- Detachable 3dBi high-gain antenna

WNL-U555HA

- 2.4GHz ISM band, unlicensed operation
- Compliant with IEEE 802.11b/g/n
- 150Mbps 802.11n MIMO technology
- High Power up to 300mW for the range extension
- Detachable 5dBi high-gain antenna

WNL-U556M

- 300 Mbps 802.11n MIMO technology
- Micro-size design
- 2.4GHz ISM band, unlicensed operation

WDL-U700

- 2.4G & 5G simultaneous dual band wireless connectivity
- Compliant with IEEE 802.11a/b/g/n
- 300Mbps 802.11n MIMO technology

WDL-U600AC

- Next-generation 11ac Wi-Fi up to 433Mbps
- 2.4GHz & 5GHz Dual-band Wireless Connectivity
- Backward compatible with 802.11a/b/g/n Wireless Networks
- One touch Network Connection with the WPS Button
- Software AP function for Wi-Fi sharing
- Windows XP, Win7, Win8, Linux, and Mac OS X Ready
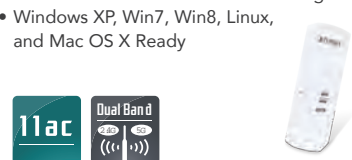
Outdoor Wireless LAN Solutions

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

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Digital Home

Network Peripheral

WISP Solution

Compared with the traditional ISP provider that offers wired Internet service, Planet WISP solution provides more elasticity, more effective and low cost wireless Internet service, and no limitation of place, be it a small residence, or campus.

WISP Solution

Internet

Outdoor AP Router
WNAP-6325

WISP Provider

Outdoor WISP AP Router
WNAP-6325

WNAP-6325

Wi-Fi Solution

5GHz

Outdoor AP Router
WNAP-7325

WNAP-7325

WNAP-7300

WNAP-7325

WNAP-7325

WNAP-1260

WNL-U555HA

WNRT-627

WNL-U556M
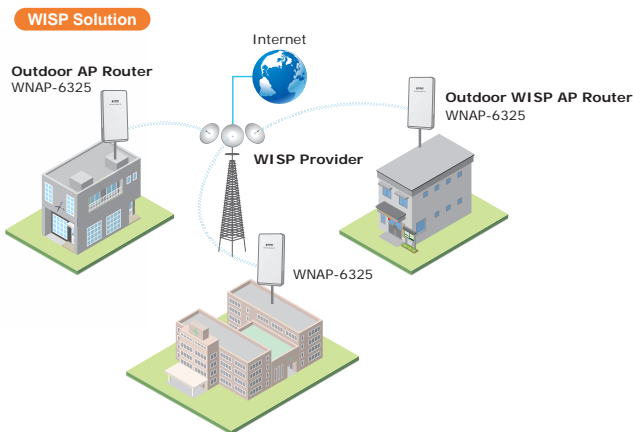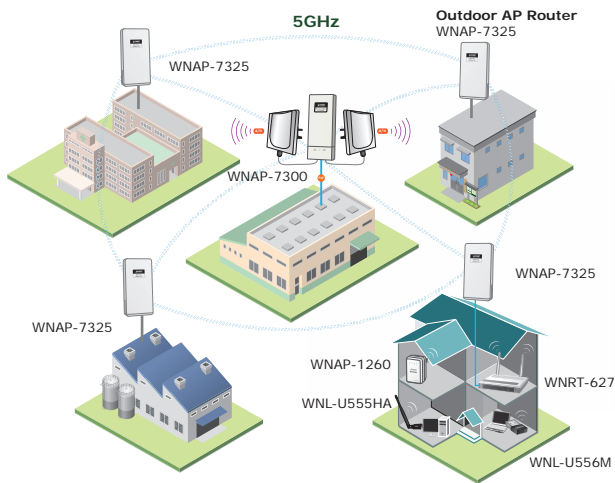
Outdoor Wi-Fi LAN Solution

It provides a medium / small business or SOHO with wireless LAN data transmission solution for campuses, residences and business buildings. 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 connectivity.

Outdoor CPE / Client

Planet Outdoor Solution supports multiple wireless communication connectivity (AP / Client CPE / WDS PtP / WDS PtMP / Repeater / Universal Repeater / 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.

WNAP-7350 +
ANT-FP15AD

ANT-FP23A

20Km
(5GHz)

Internet

ANT-FP18A

WNAP-7350

IP Camera

ISP

WNAP-7350 +
ANT-SE17A

10Km
(5GHz)

BSP-300

Solar Power

3Km
(5GHz)

WNAP-7325

City

5Km
(5GHz)

WNAP-7300 +
ANT-FP18A

Hotel

100BASE-TX UTP with PoE   100BASE-TX UTP
Antenna wire   5GHz 802.11a/n

Gas Station   IP Camera

61
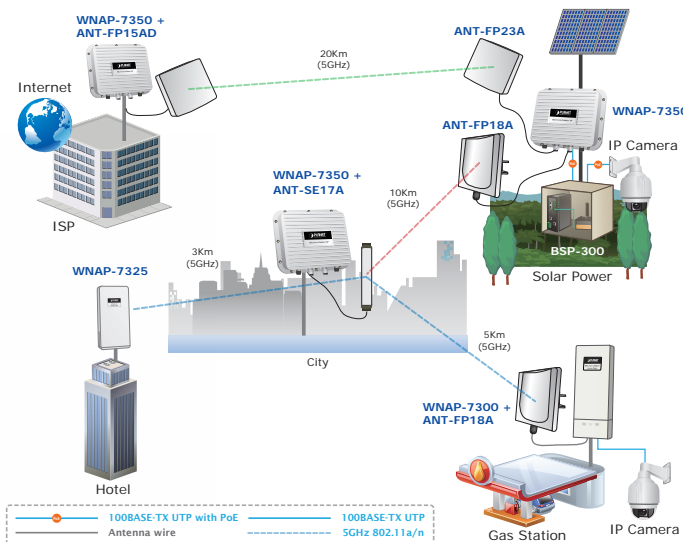
2.4GHz / 5GHz 802.11a/n Outdoor WLAN Solutions

Highly Reliable Wireless Outdoor Connection

Planet Outdoor Solution provides Higher Transmission Power, Longer Distance, and Better Performance than standard outdoor wireless Access Point. It is equipped with various antenna solutions and multiple adjustable transmission output power controllers which are quite suitable for longer distance and widely open space applications.

- Wide range of temperature tolerance and weatherproof housing
- Power Over Ethernet design
- High transmission output power

- Multiple operating modes : AP/Router, Client CPE, WDS, Repeater
- Universal Repeater, WISP

WNAP-6308

2.4GHz 11b/g/n Outdoor WLAN

- Built-in N-type (M) antenna connector
- AP (Dual-SSID), Client, WDS, Repeater, Universal Repeater, WISP modes
- IP55 case protection
- Mount-free
- High transmission output power up to 200mW

WNAP-6305

2.4GHz 11b/g/n Outdoor WLAN

- Built-in 12dBi patch antenna
- Optional RP-SMA (F) type antenna connector
- AP (Multiple-SSID), Client, WDS, Repeater, Universal Repeater, WISP modes
- IP55 case protection
- High transmission output power up to 600mW

WNAP-6325

2.4GHz 300Mbps 802.11n Wireless Outdoor CPE

- 2.4GHz 11n Wi-Fi speed up to 300Mbps
- Built-in 14dBi dual-polarization antenna
- Comprehensive operation modes for various applications
- IP55 protection, UV resistance and passive PoE design
- SNMP-based management

WNAP-6350

2.4GHz 11b/g/n Outdoor WLAN

- 2T2R 300Mbps
- Two built-in N-type (F) antenna connectors
- AP (Dual-SSID), Client, WDS, Repeater, WISP modes
- Aluminum housing, IP67 protection grade
- 802.3af standard Power Over Ethernet design
- High transmission output power up to 500mW

WNAP-7350

5GHz 11a/n Outdoor WLAN

- 2T2R 300Mbps
- Two built-in N-type (F) antenna connectors
- AP (Dual-SSID), Client, WDS, Repeater, WISP modes
- Aluminum housing, IP67 protection grade
- 802.3af standard Power Over Ethernet design
- High transmission output power up to 500mW

WNAP-7300

5GHz 11a/n Outdoor WLAN

- 2T2R 300Mbps
- Built-in 16dBi dual-polarized patch antenna
- Optional two RP-SMA (F) type antenna connectors
- AP (Multiple-SSID), Client, WDS, Repeater, WISP modes
- IP55 case protection
- High transmission output Power up to 400mW

WNAP-7320

5GHz 11a/n Outdoor WLAN

- Built-in 14dBi dual-polarized patch antenna
- AP (Dual-SSID), Client, WDS, Repeater, WISP modes
- IP55 case protection
- High transmission output power up to 500mW

WNAP-7325

5GHz 300Mbps 802.11n Wireless Outdoor CPE

- 5GHz 11n Wi-Fi speed up to 300Mbps
- Built-in 14dBi dual-polarization antenna
- Comprehensive operation modes for various applications
- IP55 protection, UV resistance and passive PoE design
- SNMP-based management

Wireless Presentation Gateways

Delivering Smooth Presentations Wirelessly

PLANET wireless presentation gateway is designed based on IEEE 802.11n technology. It is equipped with both VGA and HDMI video output interfaces and one 10/100Mbps Ethernet port for LAN connection. With the hardware decoding capability, PLANET Wireless presentation gateway can project high-definition video on the screen and audio through wireless or wired LAN connection. It facilitates multiple users to freely display the presentations, images and videos via wireless connection to a projector or LCD TV without swapping lots of cables.

- IEEE 802.11n, 802.11b/g standard compliant
- High-speed wireless data rate
- Advanced wireless security
- User-friendly Web management interfaces
- Plug & show

- 4-to-1 split screen projection
- Web browser management
- Windows XP / Vista / 7 / 8 Mac OS X support
- Multiple users access

WIPG-300H

- Windows, Mac OS, Android and iOS supported
- Full HD1080p projection
- 4-to-1 split screen projection
- SidePad manages projection via iOS or Android device.
- Web Slides allow audience to view the slides from web browser.
- Plug & Show
- 802.11n Wi-Fi AP & AP-Client mode

WPG-210N

- 300Mbps 802.11n MIMO technology
- Up to 30FPS network screen projection speed
- VGA/720p HDMI output
- 802.11n Wi-Fi AP and AP-client mode
- Audio/video streaming

Industrial Wireless Access Points

Excellent Hardware Design

PLANET Industrial Wireless Solution is designed for the Wi-Fi application over a TCP/IP network in the hardened environment for robust wireless access. It comes with 802.11n wireless interface for up to 300Mbps wireless performance and provides IEEE 802.3af PoE PD (Powered Device) or PoE PSE (Powered Source Equipment) interface which is the ideal solution for wireless transmission in any harsh industrial environment.

- Complies with IEEE 802.11n wireless LAN speed up to 300Mbps
- IPv4 / IPv6 Web management
- 2 x 5dBi detachable omni-directional antenna
- Supports 64/128-bit WEP, WPA / WPA2, and WPA-PSK / WPA2-PSK, 802.1x

- Supports IEEE 802.1Q VLAN
- -10 to 60 degrees C operating temperature
- Redundant power design
- IP30 aluminum case protection / DIN Rail and wall-mount design

IAP-2000PE

- 4 x 10/100Base-TX Ports with 1-port PoE Powered Device (PD)

IAP-2001PE

- 4 x 10/100Base-TX Ports with 1-port PoE Powered Device (PD)
- One 100Base-FX fiber optic SFP Slot

IAP-2000PS

- 4 x 10/100Base-TX Ports with PoE Power Sourcing Equipment (PSE)

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

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Network Security

Digital Home

Network Peripheral

Wireless Antennas & 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 converge 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.

2.4G Antennas

ANT-OM8
8dBi Omni-directional Antenna

ANT-FP9
9dBi Flat-Panel Directional Antenna

ANT-YG20
20dBi Yagi Directional Antenna

ANT-OM9 (Indoor)
2.4GHz 9dBi Omni-directional Antenna

ANT-FP18
18dBi Flat-Panel Directional Antenna

ANT-SE18
12-18dBi Adjustable Sector Antenna

ANT-OM15
15dBi Omni-directional Antenna

ANT-YG13
13dBi Yagi Directional Antenna

ANT-GR21
21dBi Grid Directional Antenna

5GHz Antennas

ANT-OM10A
5GHz 10dBi Omni-directional Antenna

ANT-FP18A
5GHz 18dBi Flat Panel Antenna

ANT-SE17A
5GHz 17dBi Sector Antenna

ANT-FP15AD
15dBi Flat-Panel Dual Polarization Antenna

ANT-FP23A
5GHz 23dBi Flat Panel Antenna

ANT-SE21A
5GHz 21dBi Sector Antenna

Accessories

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

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

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

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

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

WL-N-10
10m N-male (male pin) to N-female (female pin) Extension 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-LTNA

WL-NM-0.6

WL-SMA-6

Comprehensive Intelligent
IP Surveillance Solutions

- **Exmor RS**
- **60FPS**
- **WDR**
- **low Lux**
- **PoE+**

Available on the **App Store**

ANDROID APP ON **Google play**

Member of **Onvif**

CMS

NVR

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 JPEG 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 360° Panoramic Surround View

PLANET Fish-eye 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 IP Cameras

PLANET IP Surveillance Solution provides multi ways for users to remote monitor all IP cameras more efficiently, such as user-friendly website management, Apps for smart-phones and pads, and FREE DDNS services. Quick & Easy access to your PLANET IP Surveillance camera over both Mobile Phone and WIFI Networks at anytime, anywhere.

Access Anywhere - Cloud Services makes it easy

To make home monitoring a truly simple experience, we have created CloudLync to enable you 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 CloudLync to enable you to enjoy the freedom of remote monitoring on your terms.

iPad   PC   iPhone   Laptop

Cloud Service

Ultra-Mini 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 & 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-1200

- Sony Exmor progressive CMOS sensor
- 4.2 mm board lens
- Maximum resolution 1920 x 1080 (25fps)
- 10-meter IR LEDs with ICR
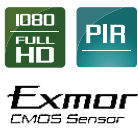
ICA-W1200

- Sony Exmor progressive CMOS sensor
- 4.2 mm board lens
- Maximum resolution 1920 x 1080 (25fps)
- 10-meter IR LEDs with ICR
- IEEE 802.11n wireless LAN compliant (ICA-W1200)

ICA-3110

- 2.8 mm board lens
- Maximum resolution 1280 x 800 (30fps)
- 5-meter IR LEDs
- 2-way audio function

ICA-3200

- 3.6 mm board lens
- Maximum resolution 1920 x 1080 (25fps)
- 2-way audio function

ICA-4130S

- SIP 2.0 (RFC3261) compliant
- 4.0 mm board lens
- Maximum resolution 1280 x 960 (30fps)
- Tamper detection for unauthorized changes
- Supports advanced e-PTZ funciton
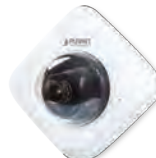
ICA-4230S

- SIP 2.0 (RFC3261) compliant
- 4.0 mm board lens
- Maximum resolution 1920 x 1080 (30fps)
- 10-meter IR LEDs with ICR
- Supports advanced e-PTZ function

ICA-4200

- 3.6mm board lens
- Maximum resolution 1920 x 1080 (30fps)

ICA-5150

- 3.6mm board lens
- Maximum resolution 1280 x 1024 (30fps)
- IP66 / IK10

ICA-5250

- 3.6mm board lens
- Maximum resolution 1920 x 1080 (30fps)
- IP66 / IK10

LAN Switches

Industrial Ethernet

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Exmor RS IP Cameras

ICA-3260

- Sony Exmor RS Progressive CMOS sensor
- Maximum resolution 1920 x 1080 (60fps)
- 25-meter IR LEDs with ICR
- True WDR™ / super low lux@0.01
- Intelligent-inside / 3DNR / IPv6

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-5260V

- Sony Exmor RS Progressive CMOS sensor
- Maximum resolution 1920 x 1080 (60fps)
- 20-meter IR LEDs with ICR
- True WDR™ / Super low lux@0.01
- Intelligent-inside / 3DNR / IPv6 / IP66 / IK10

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

V.S

Super low lux for day & night

True WDR

V.S

By no WDR IP Camera with   By PLANET True WDR IP camera

LPR

By other brands   By PLANET LPR IP camera

Smart Focus with P-Iris

Blurred   Auto Focus   Clear

Face Detection and Cross Line Detection

Face Detection   Cross Line Detection

Dome IP Cameras

- Simultaneous multi-stream support
- Compliant with IEEE 802.3af PoE interface for flexible deployment
- ONVIF compliant
- PLANET DDNS & easy DDNS
- Easily-recessed mount design

ICA-4150

- 3.6 mm board lens
- Maximum resolution 1280 x 720 (30fps)
- 20-meter IR LEDs with ICR
- WDR / 3DNR / IPv6

720P HD | Outdoor

ICA-4200V

- 3.3~12mm vari-focal, auto-iris lens
- Maximum resolution 1920 x 1080 (30fps)
- 20-meter IR LEDs with ICR
- WDR / 3DNR / IPv6

1080 FULL HD | PIR

ICA-4500V

- 3.3~12mm vari-focal, auto-iris lens
- Maximum resolution 2590 x 1944 (15fps)
- 20-meter IR LEDs with ICR
- WDR / 3DNR / IPv6

5MP | PIR

ICA-5250V

- 3.0~9.0mm vari-focal, auto-iris lens
- Maximum resolution 1920 x 1080 (30fps)
- 20-meter IR LEDs with ICR
- WDR / 3DNR / IPv6
- IP66 / IK10

1080 FULL HD | Outdoor

ICA-5550V

- 3.0~9.0mm vari-focal, auto-iris lens
- Maximum resolution 2590 x 1944 (15fps)
- 20-meter IR LEDs with ICR
- WDR / 3DNR / IPv6
- IP66 / IK10

5MP | Outdoor

ICA-5350V

- 1 / 2.8'' Sony Exmor Progressive CMOS
- 3.0~9.0mm vari-focal, auto-iris lens
- Maximum resolution 2048 x 1536 (30fps)
- 20-meter IR LEDs with ICR
- WDR / 3DNR / IPv6
- IP66 / IK10

3MP | Outdoor

PTZ Dome IP Cameras

- Simultaneous multi-stream support
- 2-way audio function
- Digital Input / Output for integration with sensors and alarms
- ONVIF compliant
- Supports IPv6 protocol in addition to the standard IP protocol version 4 (IPv4)
- PLANET DDNS & easy DDNS

ICA-W7100

- 3.6 mm 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

ICA-H652

- Sony Exview CCD sensor (540TVL)
- 3.4~122.4mm vari-focal, auto-iris lens
- 36X optical / 12X digital Zoom
- Maximum resolution 704 x 576 (30fps)
- WDR / 3DNR / IP66 / PoE+

Exview CCD

ICA-HM620

- Sony Exmor progressive CMOS sensor
- 4.7~84.6mm vari-focal, auto-iris lens
- 20X optical / 8X digital zoom
- Maximum resolution 1920 x 1080 (30fps) / 1280 x 720 (60fps)
- WDR / 3DNR / IP66 / PoE+

1080 FULL HD | Exmor CMOS Sensor

LAN Switches

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Box IP Cameras

- Simultaneous H.264 / MPEG-4 and M-JPEG video compression
- Simultaneous multi-stream support
- Compliant with IEEE 802.3af PoE interface for flexible deployment
- Removable IR-cut Filter for Day & Night function
- Supports IPv6 protocol in addition to the standard IP protocol version 4 (IPv4)

- RS-485 interface for P/T scanner control
- 2-way audio function
- Micro SD card for local storage
- Digital Input / Output for integration with sensors and alarms
- ONVIF compliant

ICA-2200
- 3.3~12mm vari-focal, auto-iris lens
- Maximum resolution 1920 x 1080 (30fps)
- WDR / ICR / 3DNR

1080 FULL HD

ICA-2500
- 2.8~8 mm vari-focal, auto-iris lens
- Maximum resolution 2592 x 1944 (15fps)
- WDR / ICR / 3DNR

5MP

ICA-HM127
- 3.1~8 mm vari-focal, auto-iris lens
- Maximum resolution 2048 x 1536 (20fps)
- ICR

3MP

ICA-HM351
- 4 mm board lens
- Maximum resolution 1920 x 1080 (30fps)
- 35 Meters IR LEDs
- WDR / ICR / 3DNR / IP66
- Industrial design with -30 to 60 degrees C operating temperature

1080 FULL HD

ICA-2250VT
- Sony Exmor progressive CMOS sensor
- 3.1~8 mm 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

1080 FULL HD   *Exmor* CMOS Sensor

Bullet IP Cameras

- Simultaneous H.264 / MPEG-4 and M-JPEG video compression
- Simultaneous multi-stream support
- Compliant with IEEE 802.3af PoE interface for flexible deployment
- Removable IR-cut Filter for Day & Night function
- RS-485 interface for P/T scanner control

- 2-way audio function
- Digital Input / Output for integration with sensors and alarms
- IP66 resistance certified
- ONVIF compliant

ICA-3150
- 3.6 mm board lens
- Maximum resolution 1280 x 720 (30fps)
- 25-meter IR LEDs with ICR
- WDR / 3DNR / IPv6

720P HD

ICA-HM312
- 4.0 mm board lens
- Maximum resolution 1920 x 1080 (30fps)
- 25-meter IR LEDs with ICR
- WDR / 3DNR / IPv6

1080 FULL HD

ICA-3250V
- 3.6~10.5mm vari-focal, auto-iris lens
- Maximum resolution 1920 x 1080 (30fps)
- 25-meter IR LEDs with ICR
- WDR / 3DNR / IPv6
- Cable management

1080 FULL HD

ICA-W3250V
- 3.6~10.5mm vari-focal, auto-iris lens
- Maximum resolution 1920 x 1080 (30fps)
- 25-meter IR LEDs with ICR
- WDR / 3DNR / IPv6
- Cable management
- IEEE 802.11 n wireless LAN compliant

1080 FULL HD   802.11n

ICA-3550V
- 3.6~10.5mm vari-focal, auto-iris lens
- Maximum resolution 2592 x 1944 (15fps)
- 25-meter IR LEDs with ICR
- WDR / 3DNR / IPv6
- Cable management

5MP

ICA-3350P
- 3.0~10.5mm mechanical vari-focal, auto-iris lens
- Maximum resolution 2048 x 1536 (20fps)
- 25-meter IR LEDs with ICR
- Smart focus and zoom
- WDR / 3DNR / IPv6
- Cable management

3MP

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 / Output for integration with sensors and alarms

ICA-W8100 / ICA-W8100-CLD

- 0.89 mm fisheye lens
- Maximum resolution 1280 x 720 (30fps)
- IEEE 802.11n wireless LAN compliant
- WPS / PIR for thermal / motion detection
- Plug and play smart access technology without IP setting in router (ICA-W8100-CLD)

ICA-8200

- Equipped with 2659 x 1944 pixel 5MP CMOS sensor
- 1.37 mm fisheye lens
- Maximum resolution 1440 x 1400 (15fps)
- WDR / 3DNR / IPv6 / ONVIF
- Supports advanced e-PTZ function

ICA-W8200

- Equipped with 2659 x 1944 pixel 5MP CMOS sensor
- 1.37 mm fisheye lens
- Maximum resolution 1440 x 1400 (15fps)
- WDR / 3DNR / IPv6 / ONVIF
- Supports advanced e-PTZ function
- IEEE 802.11n wireless LAN compliant (ICA-W8200)

ICA-8350

- Sony Exmor progressive CMOS sensor
- 1.25 mm fisheye lens
- Maximum resolution 1536 x 1536 (22fps)
- WDR / 3DNR / IPv6 / ONVIF
- IP66 / IK10

ICA-8500

- Equipped with 2659 x 1944 pixel 5MP CMOS sensor
- 1.37 mm fisheye lens
- Maximum resolution 1920 x 1920 (15fps)
- WDR / 3DNR / IPv6 / ONVIF
- Supports advanced e-PTZ function

ICA-W8500

- Equipped with 2659 x 1944 pixel 5MP CMOS sensor
- 1.37 mm fisheye lens
- Maximum resolution 1920 x 1920 (15fps)
- WDR / 3DNR / IPv6 / ONVIF
- Supports advanced e-PTZ function
- IEEE 802.11n wireless LAN compliant (ICA-W8500)

Panoramic Camera for Wide View Surveillance

Fisheye IP Camera

360° Source View

360° Source View with 3 ROI

180° Triple View with 2 PTZ

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Enterprise Surveillance Managers

To meet advanced surveillance needs and manage different IP cameras with one central managemebt interface, the Cam Viewer 3, the most convenient solution for installers, provides a state-of-the-art IP surveillance system. This software supports the widest choice of PLANET IP cameras and video servers, with the equipment connected directly to LAN or other TCP/IP network, wuch as the Internat. Digital recording is saved directly onto the hard drive(s) of the PC.

- Simultaneous recording and live video streams
- Supports M-JPEG / MPEG-4 / H.264 compressions
- Video recycle function keeps the video recording 7 / 24
- Built-in Intelligent Video Analytics (IVA)
- Up to 5 monitors for live operation
- Exports recorded video file to AVI format

- Unlimited layer E-Map integrated with Google Map
- Real-time / playback video with high quality at 30 / 25 fps
- 2-way audio function
- Multiple languages support
- Joystick support

Event Monitoring

E-Map Monitoring

Remote Monitoring

Playback Monitoring

Live Monitoring

CV3P- 4 / 8 / 16 / 36 / 64

- Manages up to 64 IP cameras
- Up to 9 channels multi-view playback simultaneously
- POS (Point of Sales)
- Remote Monitor / Playback / Backup / Configuration
- Mobile devices remote monitoring (iNVR / aNVR Viewer)

CV3-M1024

- Manages max. 1024 Channels
- Up to 4 channels multi-view playback simultaneously
- Smart NVR Search

Intelligent Video Analysis

Motion Detection

Tripwire Detection

Camera Tampering

Face Counting

Imaga Enhancement

Object Counting

Object Loss

Foreign Object

Central Management Software

Network Video Recorders

To save the Total Cost of Ownership (TCO), PLANET also provides the alternative way to store all the video / audio from the IP Camera and the NVR - Network Video Recorder. The NVR product family includes 8-ch, 16-ch and 32-ch capability that can record 32 IP cameras that are connected on the IP network whether they are wired or wireless, indoor or outdoor.

- Simultaneous recording and live video streams
- Supports M-JPEG / MPEG-4 / H.264 compressions
- Mobile devices remote monitoring (iNVR)
- Auto configurationfor for PLANET IP camera
- Easy access with PLANET Dynamic DNS
- Manual or schedule recording of 8/16/32 IP cameras simultaneously
- E-Map interface in web and utility configuration
- Video recycle function keeps the video recording 7/24

- 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
- Supports mobile phone remote view with WinCE 6.1, Android, Symbian S60, iPhone, Blackberry 4.6 or above

NVR-820

- Records 120fps @1920 x 1080
- Maximum bitrate 100 Mbps
- 2 x SATA HDD with E-SATA
- HDMI and VGA dual local display
- Intelligent, Google e-Map, and multi-brand IP CAM support

NVR-1620

- Records 120fps @1920 x 1080
- Maximum bitrate 100 Mbps
- 2 x SATA HDD with E-SATA
- HDMI and VGA dual local display
- Intelligent, Google e-Map, and multi-brand IP CAM support

NVR-3210

- Records 200fps @1920 x 1080
- Maximum bitrate 200 Mbps
- 4 x SATA HDD with RAID 0 / 1 / 5 / 10
- 1920 x 1080 VGA local display
- E-SATA, Google e-Map, and multi-brand IP CAM support

NVR-3250

- Records 200fps @1920 x 1080
- Maximum bitrate 200 Mbps
- 4 x SATA HDD with RAID 0 / 1 / 5 / 10
- 1920 x 1080 VGA local display
- E-SATA, Google e-Map, and multi-brand IP CAM support
- 1U standard 19" rack-mount design

NVR-3280

- Records 200fps @1920 x 1080
- Maximum bitrate 200 Mbps
- 8 x SATA HDD with RAID 5 / 10
- 1920 x 1080 VGA local display
- E-SATA, Google e-Map, and multi-brand IP CAM support
- 2U standard 19" rack-mount design

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Network Video Recorders

- Simultaneous recording and live video streams
- Supports H.264 compressions
- Mobile devices remote monitoring
- Auto configurationfor for PLANET IP camera
- Easy access with PLANET Dynamic DNS
- Manual or schedule recording of 9/16 IP cameras simultaneously
- Video recycle function keeps the video recording 7/24
- 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-915

- H.264 compression
- Records 120fps @1920 x 1080
- Maximum bitrate 48 Mbps
- 2 x SATA HDD with E-SATA
- HDMI and VGA local display

NVR-1615

- H.264 compression
- Records 120fps @1920 x 1080
- Maximum bitrate 80 Mbps
- 2 x SATA HDD with E-SATA
- HDMI and VGA local display

Internet Video Servers

- Simultaneous H.264 / MPEG-4 and M-JPEG video compression
- Maximum resolution 704 x 576 (30fps)
- Simultaneous multi-stream support
- Supports IPv6 protocol in addition to the standard IP protocol version 4 (IPv4)
- RS-485 interface for P/T scanner control
- Digital Input / Output for integration with sensors and alarms
- Micro SD card for local storage
- 2-way audio function
- ONVIF compliant

IVS-H125

- Flexible installation with media converter chassis (MC700/MC-1500/MC-1500R/MC-1500R48)

IVS-H125P

- Compliant with IEEE 802.3af PoE interface
- 12V DC/ 400mA to analog camera throught power jack

IVS-2120

- Compliant with IEEE 802.3af PoE interface
- Fiber / RJ-45 dual Ethernet port
- DIN-Rail mounting installation suitable for industrial enviroments
- Industrial design with -30 to 60 degrees C operating temperature

Hybrid Digital Video Recorders

- Linux-embedded, highly-reliable standalone HDVR
- Supports hybrid mode for combination of IP 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 20 Mbps
- 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 20 Mbps
- 8-ch BNC connectors and 1 x SATA HDD
- 1280 x 720 HDMI and VGA local display

HDVR-1630

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

Analog Cameras

Model	CAM-IR138	CAM-IR338	CAM-IR560V	CAM-IVP55V
Product Image				
Resolution	700 TVL	700 TVL	600 TVL	700 TVL
Sensitivity	0.01 Lux	0.01 Lux	0 Lux	0.01 Lux
CCD Sensor	1/3" Sharp	1/3" Sony	1/3" Sony	1/3" Sony
Lens	3.6mm / F:2.0	6.0mm / F:2.0	6~15mm / F:1.4	2.8~12mm / F:1.4
IR Distance	30 meters	30 meters	50 meters	25~30 meters
Vandal Registance	-	-	-	10 Pound
ICR/ Auto Iris	- /-	- /-	- / Yes	Yes /Yes
Water Resistance	IP66	IP66	IP66	IP66

LAN Switches
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IP Telephony
Network Security
Digital Home
Network Peripheral

All-New Business-class

SIP Communications Solution

HD VOICE

PoE

Conference

Green office

▶ Asterisk IP PBX   ▶ HD IP Phone   ▶ Analog Telephone Adapter

▶ SIP Voice Gateway   ▶ Unified Office Gateway

HD Voice

The 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, 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 opposite ends of the country.

Watch 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.

Manage your office from your mobile device

Users have an IP PBX phone number including the 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 help mobile users deliver whether they are in or out of the office.

LAN Switches

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SIP IP Phones

PLANET IP phones support the business to build high performance VoIP communications at a low cost. PLANET IP Phone makes it simple for the enterprise combining its voice and data systems or expanding voice system to new locations. It helps the company to save money on long distance charges, and helps customers choose PoE, non-PoE, wireless, video phone, etc.

- SIP 2.0 (RFC3261) / STUN (RFC3489) Compliant
- 3-way conferencing, Caller ID, Speed Dial
- Call Waiting, Transfer, Forward, Call Hold, Mute
- Message Waiting Indicator (MWI)
- Auto-provisioning / QoS / Do Not Disturb (DND)

- Voice activity detection (VAD) / Comfort noise generation (CNG)
- Acoustic echo canceller (AEC) / G.165: Line echo canceller (LEC)
- Adaptive jitter buffer(AJB) / automatic gain control (AGC)
- Voice codec : G.711, G.729, G.723, G.726, G.722, G.721

VIP-8030NT

- Supports 3 SIP voice lines
- Supports HD voice
- 128 x 64 pixel LCD display with ivory backlight
- 3-way conferencing
- Echo cancellation, hi-fi technology of wideband voice communication
- Connection type for add-on microphones for a larger recording range

Meeting via
Effective Communications

▶ VIP-8030NT

VIP-6040PT

- Gigabit Ethernet with PoE
- 3.5 inch color screen
- HD voice
- 5-way conferencing
- 14 programmable keys
- Black list XML / LDAP phonebook
- Screen Sleep / Photo Caller ID

VIP-EXT-40

- 3.5 inch color LCD
- 20 programmable Keys each with a dual-color LED
- Daisy-chain 6 modules for up to 240 DSS Keys
- 2 control keys for fast switch pages
- Rich features, each with different Icon
- Compatible with PLANET VIP-6040PT

For 6040PT

VIP-5060PT

- Supports IAX2 and IAX2 line call
- Supports six SIP voice lines
- Supports HD voice
- XML phonebook / browser
- Supports SRTP and Busy Lamp Field (BLF)
- Up to 5 extension consoles; max. 130 definable keys

VIP-2020PT

- Supports IAX2 and IAX2 line call
- Supports two SIP voice lines
- Supports HD voice
- XML phonebook / browser
- Supports SRTP and Busy Lamp Field (BLF)
- Up to 5 extension consoles; max. 130 definable keys

VIP-EXT-26

- 26 programmable buttons per module
- Supports Busy Lamp Field (BLF)
- Dual color LED for status indication
- Speed dial for each line
- 5 daisy-chain modules for 130 programmable buttons
- Conference/call transfer/forward/pickup
- Compatible with PLANET VIP-2020PT / VIP-5060PT business pro IP phones

For 5060PT / 2020PT

VIP-1010PT

- VIP-1010PT
- 2.6 inch color screen
- HD Voice
- 1 Line
- XML/LDAP phonebook
- Broadsoft/XML/LDAP phonebook
- 10 programmable keys

HD Voice

VIP-256PT

- 128x32 Graphic LCD with backlight
- Up to 2 service domains
- BLF (Busy Lamp Field)
- TR-069 / SNMPv2
- IEEE 802.3af PoE compliant

TR-069 Ready

VIP-362WT   Wi-Fi IP Phone

- 128x64 Graphic LCD with backlight
- Up to 4 service domains
- TR-069 / SNMPv2
- IEEE 802.11n wireless LAN compliant

WVoIP SIP

SIP IP Cameras

PLANET SIP IP Camera Series is designed for easy installation with versatile functions. The camera features a megapixel sensor and supports H.264, MPEG-4, and M-JPEG compression formats to deliver excellent picture quality for different applications. Integrated with SIP/VoIP protocol, the PLANET SIP IP Camera Series provides more aggressive and efficient solution to dealing with event triggers via video phone. It is perfect for remote and discreet monitoring of indoor areas such as homes, small businesses, boutiques, stores, offices, communities, restaurants, hotels, residences, health care facilities, etc.

ICA-4130S   HD SIP Camera

- SIP 2.0 (RFC3261) compliant
- 1/ 2.5" progressive scan CMOS sensor
- H.264 / MPEG-4 / M-JPEG compression simultaneously
- IEEE 802.3af standard PoE interface
- Supports advanced e-PTZ function

VoIP SIP **HD**

ICA-4230S   Full HD SIP Camera

- SIP 2.0 (RFC3261) compliant
- 1/ 2.5" progressive scan CMOS sensor
- H.264 / MPEG-4 / M-JPEG compression simultaneously
- IEEE 802.3af standard PoE interface
- Supports advanced e-PTZ function
- Day / Night switch ICR (IR-cut Filter Removable)

VoIP SIP **IR**

Motion Alarm

SIP IP Camera ICA-4230S

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

IP PBXs

PLANET provides total IP PBX solution for our customers. For example, UMG Series is a total IT solution for small and medium businesses (SMBs). IPX-1980 (8 x FXO) / IPX-1800N (4 x ISDN) are both fully functional IP PBX, and MCU series is Multipoint Control Unit, which can not only support communication but also up to 4/9 video conferencing screen.

- SIP 2.0 (RFC3261) / STUN (RFC3489) Compliant
- 3-way conferencing, Speed Dial
- Call Waiting, Transfer, Forward, Call Hold, Mute

- Voice activity detection (VAD) / Comfort noise generation (CNG)
- G.165: Line echo canceller (LEC) / Adaptive jitter buffer(AJB)
- Voice codec : G.711, G.729, G.723

IPX-330

- 10 concurrent calls and up to 30 registers
- HD voice codec G.722 for perfect voice quality
- Fax to Email / Email to Fax for Green Office
- BLF (Busy Lamp Field)
- Call Paging and Intercom
- IVR (Interactive Voice Responses)

IPX-2100

- 20 concurrent calls and up to 100 registers
- HD voice codec G.722 for perfect voice quality
- Fax to Email / Email to Fax for Green Office
- BLF (Busy Lamp Field)
- Call Paging and Intercom
- IVR (Interactive Voice Responses)

IPX-2500

- SIP 2.0 (RFC3261 compliant)
- 500 Registrations / 80 Concurrent Calls
- Supports maximum 8 ports (on 2 slots)
- Multi-Language / Call Record
- Dual Gigabit Ethernet
- Hardware Echo Cancellation

IPX-21SL / IPX-21FO

- 4 standard two-wire, RJ-11 interfaces
- Up to 4 ports for 2 analog telephone lines and 2 POTS lines
- Loop start signaling for advanced features: caller ID and distinctive ring
- PSTN life-line for emergency calls (For IPX-21SL)

For IPX-2500 / IPX-2100

IPX-21PR / IPX-21BR

- One RJ48 Interface(IPX-21PR)
- Up to 24 (T1) or 30 (E1) simultaneous calls (IPX-21PR)
- Selectable T1, E1 Mode Digital Card (IPX-21PR)
- Protocol support includes: ISDN PRI, Robbed-bit, CAS(IPX-21PR)
- 4 X ISDN BRI-ST interface ports (IPX-21BR)
- Up to 8 voice channels(IPX-21BR)
- Supports TE and NT modes(IPX-21BR)

For IPX-2500 / IPX-2100

IPX-21GS

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

For IPX-2500 / IPX-2100

High Performance Asterisk-based IP PBX

30 user registrations   **100** user registrations   **500** user registrations

▶ IPX-330   ▶ IPX-2100   ▶ IPX-2500

SOHO (30 people)   **SMB** (100 people)   **Enterprise** (500 people)

Unified Office Gateways / MCU

UMG-2200

- 250 register extensions
- 50 concurrent calls
- 8-port FXO IP PBX
- 24+2G switch service
- IEEE 802.11n wireless access point
- SSL / PPTP VPN & SPI firewall
- URL / IM / P2P Blocking
- POP3, SMTP, IMAP, webmail
- Anti-virus and anti-spam
- RAID 0, RAID 0/1, RAID 5, JBOD

Max. 250 ext.

UMG-1000

- 100 register extensions
- 30 concurrent calls
- 4-Port FXO IP PBX
- SSL / PPTP VPN & SPI firewall
- URL / IM / P2P Blocking
- POP3, SMTP, IMAP, webmail
- Anti-virus and anti-spam
- FTP & network storage

TAIWAN EXCELLENCE 2013

Max. 100 ext.

MCU-1400 / MCU-1900

- Up to 4 / 9 video conferencing screen
- Up to 20 / 60 voice participants
- H.263 / H.263p / MPEG-4 compression
- Video / voice conferencing service
- Call detailed Record (CDR)
- Asterisk compatible IP PBX
- IP surveillance hosting service

MCU

H.323 / SIP VoIP Gateways

PLANET VoIP Gateway series is fully both SIP and H.323 standard compliant residential gateway that provides a total solution to integrating voice-data network and the Public Switched Telephone Network (PSTN). It not only provides high quality voice communications, but also offers secure, reliable Internet sharing capabilities for daily voice and Internet communications.

- H.323 / SIP 2.0 (RFC3261) / STUN (RFC3489) Compliant
- 3-way Conferencing, Speed Dial
- Call Waiting, Transfer, Forward, Call Hold, Mute
- Auto-Provisioning / QoS

- Voice activity detection (VAD) / Comfort noise generation (CNG)
- G.165: Line echo canceller (LEC) / Adaptive jitter buffer(AJB)
- Voice codec : G.711, G.729, G.723
- NAT Router / DHCP Server / Virtual Server

VGW-402 / VGW-400FS / VGW-400FO

- Supports SIP 2.0 (RFC3261)
- Supports IPv6 and IPv4 simultaneously
- Up to 4 SIP service domains and Caller ID
- Supports auto HTTP provision and fax feature
- Flexible Routes Plan, Dial Plan and SIP Trunk
- Supports Firewall / URL / IP / MAC / Port Filter
- Life-line for emergency calls (VGW-402)

SIP

VIP-281 / VIP-281FS

- 1 x WAN / 4 x LAN / 2 x RJ-11
- Up to 2 service domains
- Life-line for emergency calls (VIP-281 only)

H.323 SIP

VIP-880 / VIP-880FS / VIP-880FO

- 1 x WAN / 1 x LAN / 8 x RJ-11
- Up to 8 service domains
- Life-line for emergency calls (VIP-880 only)

H.323 SIP

VIP-1680 / VIP-1680FS / VIP-1680FO

- 1 x WAN / 1 x LAN / 16 x RJ-11
- Up to 16 service domains
- Life-line for emergency calls (VIP-1680 only)

H.323 SIP

VIP-2480 / VIP-2480FS / VIP-2480FO

- 1 x WAN / 1 x LAN / 24 x RJ-11
- Up to 24 service domains
- Life-line for emergency calls (VIP-2480 only)

H.323 SIP

VIP-2100 / VIP-2400
E1 / T1 Internet Telephony Trunk Gateway

- Built-in calling destination and prefix routing for SIP and H.323 P2P calls
- Mixed SIP, Gatekeeper and P2P voice calls
- VoIP to VoIP call conversion - SIP to H.323, SIP to SIP, H.323 to H.323
- Intelligent PSTN call routing and in-trunk hunting
- External RADIUS Authentication, Authorization and Accounting
- Built-in IVR and call-flow controller for PSTN / VoIP calls
- CDR (Call Detail Record) support

H.323 SIP

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

ATAs

Based on years of VoIP manufacturing experiences, PLANET VoIP total solutions are known for advanced implementation of standard based telephony with mass deployment capability.

With cost-effective, easy-to-install and simple-to-use features, PLANET ATA converts standard telephones to IP-based network communication. It supports the service providers and enterprises to enhance the traditional telephony communication services via the existing broadband connection to the Internet or corporation network.

- SIP 2.0 (RFC3261) / STUN (RFC3489) Compliant
- 3-way conferencing, Caller ID, Speed Dial
- Call Waiting, Transfer, Forward, Call Hold, Mute
- Auto-Provisioning / QoS / Do Not Disturb (DND)
- T.38 Fax Relay, G.711 Fax pass-through

- Voice activity detection (VAD) / Comfort noise generation (CNG)
- Acoustic echo canceller (AEC) / G.165: Line echo canceller (LEC)
- Adaptive jitter buffer(AJB) / automatic gain control (AGC)
- Voice codec : G.711, G.729, G.723, G.726

VIP-156

- 1 x WAN / 1 x LAN / 1 x FXS
- Up to 3 service domains
- IPv6 management support
- TR-069 / VPN connection / VLAN

VIP-156PE

- 1 x WAN / 1 x LAN / 1 x FXS
- Up to 3 service domains
- IPv6 management support
- TR-069 / VPN connection / VLAN
- IEEE 802.3af PoE compliant

VIP-157

- 1 x WAN / 1 x LAN / 1 x FXS / 1 x FXO
- Up to 3 service domains
- IPv6 management support
- TR-069 / VPN connection / VLAN
- PSTN / VoIP call selection

VIP-157S

- 1 x WAN / 1 x LAN / 2 x FXS
- Up to 3 service domains
- IPv6 management support
- TR-069 / VPN connection / VLAN
- 2 concurrent VoIP calls

SKG-300   Skype Devices

- Call waiting, 3-way conferencing
- Voice recording, voice message
- Auto-detection of incoming PSTN or VoIP calls
- One handset for PSTN and internet calls
- Utility management

SIP VoIP Wireless Routers

VIP-462DG

- DECT & GAP compatible
- Base can register up to 5 handsets
- Built-in NAT firewall, DoS protection
- PSTN life-line for emergency calls
- IEEE 802.11g wireless LAN compliant

EPN-402NV

- 1.25Gbps GEPON fiber interface, maximum distance up to 20km
- 300Mbps 802.11n wireless connectivity
- 2 FXS ports can be easily integrated with general Voice over IP system
- 802.1Q VLAN and IGMP proxy for IPTV applications
- Supports IPv6/IPv4 Dual Stack Network, NAT, DMZ and Virtual Host

PLANET Network Security Gateway Solution

- UTM Content Security
- VPN Security Gateway
- Bandwidth Management Gateway
- Multi-Homing Security Gateway
- Broadband VPN Router

Multi WAN · **QoS** · **Load Balance** · **10M/100M / 1000M** · **VPN** · **SPI Firewall**

UTM Content Security Gateway

Anti-Virus and Anti-Spam Settings

IDP Statistics

The innovation of the Internet has created tremendous worldwide opportunities for e-business and information sharing, but network security problems also exist. So the request for security will be the primary concern for the enterprises. The new generation of CS series, PLANET UTM Content Security Gateway, a specially designed security gateway, can adopt Heuristics Analysis to filter spam and virus-affected mail, and the auto-training system can raise identified rate of spam. The anti-virus application supports double virus scan engines - Clam and Sophos which can detect viruses, worms and other threats from transferring e-mail and Internet network. It also daily, weekly, monthly and yearly provides the mail report and helps the administrators monitor the mail status easily.

Moreover, the IDP and firewall functions can defend hackers and blaster attacks from Internet or Intranet. The complete function in one device can provide security solutions and the secure environment better than ever.

The CS series not only supports the full security features, such as Content Blocking to block specific URL, Scripts, IM/P2P program, Authentication, IPSec, PPTP VPN server/Client, QoS, etc., but also provides higher performance. The multiple WAN access for CS series provides more reliable Internet service and load sharing, which support outbound load balancing and WAN fail-over feature. Furthermore, the VPN Trunk provides VPN fail-over and load balancing features, which can offer a VPN redundant mechanism to keep the VPN connection being online.

Gigabit Security Routers

High Availability

SSL VPN Link to Portal

As Internet becomes essential for your business, the only way to prevent your Internet connection from failure is to have more than one connection. PLANET's Gigabit Security Router reduces the risks of potential shutdown if one of the Internet connections fails. Moreover, it allows you to perform load-balancing by distributing the traffic through many WAN connections.

In addition to a multi-homing device, PLANET's Gigabit Security Router provides a complete security solution in a box. The policy-based firewall, content filtering function and VPN connectivity provide IPSec, and PPTP VPN. The IPSec VPN feature provides 3DES and AES encryption that make it a perfect product for your network security. No more complex connection and settings for integrating different security products on the network are required.

This product has a built-in bandwidth management function which offers network administrators an easy yet powerful means to allocate network resources based on business priorities, and to shape and control bandwidth usage.

CS-2001

- Anti-virus and anti-spam for mail security support
- Spam mail learning system
- IDP
- SPI Firewall
- IPSec, PPTP, SSL VPN
- 1000 IPSec tunnels
- QoS
- Outbound and inbound load balancing
- High availability

SG-4800

- All Gigabit ports for 4 x WAN, 8 x LAN ,1 x DMZ
- Multi-WAN load balancing and fail-over
- IPSec / SSL VPN, and PPTP VPN
- 380 VPN tunnels
- QoS /SPI & DoS Firewall
- IPv4 / IPv6 management

MH-3400

- Multi-WAN load balancing and fail-over
- IP Spec, PPTP VPN / QoS
- DoS / SPI Firewall / Content Filtering
- 200 VPN tunnels
- All Gigabit interface + 3G mobile connection

MH-2300

- Gigabit Multi-Homing VPN Security Gateway
- Definable network port (LAN, WAN and DMZ)
- IPSec VPN and PPTP server/client support
- QoS can be set to each user (Maximum guaranteed bandwidth, priority)
- Application Blocking (Facebook, LINE, YouTube, etc)
- Outbound load balancing, SPI firewall
- Content filtering: URL, whitelist/blacklist, download/upload blocking

VPN / 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 providing 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.

XRT-401F

- Virtual Server and DMZ
- DHCP Server
- Remote Management
- UPnP support
- Stateful Packet Inspection Firewall for DoS attacks
- URL Filtering and Access Control

FRT-40x

- 100Base-FX Fiber Interface
- TS-1000 and 802.3ah OAM Support
- SPI Firewall Security for anti-Dos prevention
- Supports SNMP v1/v2c
- IP / Port / MAC filtering

FRT-405N

- 300Mbps 802.11n
- 100Base-FX fiber interface
- TS-1000 and 802.3ab OAM support
- SPI Firewall security for anti-Dos prevention
- WISP support

Fiber to the Building

15Fl. FRT-405N
12Fl. FRT-405N
11Fl. FRT-405N
10Fl. FRT-405N
7Fl. FRT-405N
6Fl. FRT-405N
5Fl. FRT-405N
4Fl. FRT-405N

Internet
Data
Entertainment

Fiber Switch

100Base-FX Fiber-optic

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

Digital Home
Easy Plug & Play Anytime, Anywhere !

Video Phone

Online Gaming

IPTV (HD)

▶ **PL-502P**

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

WTV-3000

- 2.4G/5G Dual-Band Wi-Fi Transmission
- HDMI output for Full HD resolution
- Supports Miracast, ScreenShare, Airfun Streaming
- Convenient Nano-Design blends in nicely with any surrounding
- Easily shares music, pictures, or video from PC, smart phone, or Tablet to TV

Bedroom

WTV-3000

Parlor

WTV-3000

Video Line

802.11a/b/g/n
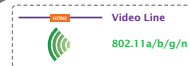
DMA-200

- 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 Galley
- Bit Torrent Downloading

ITB-3001

- 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 / Snap Shot 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 Rev2.0
- Multiple languages

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Digital Home

Network Peripheral

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 Powerline
- Easy-to-use utility

PL-701

- Data rate up to 500Mbps and distance up to 300 meters over existing electrical wiring
- Directly attached to power outlets
- Connect 10/100/1000 Ethernet network to Powerline network

Gigabit

PL-702

- Data rate up to 500Mbps and distance up to 300 meters over existing electrical wiring
- Directly attached to power outlets

Green Networking

PL-751

- Data rate up to 500Mbps and distance up to 300 meters over existing electrical wiring
- Extra power outlet brings more convenience
- A noise-filtered power outlet with AC pass-through

Pass Through

PL-510W

- Data rate up to 200Mbps and distance up to 300 meters over existing electrical wiring
- Directly attached to power outlets
- One-touch Wi-Fi Protected Setup (WPS)
- Web-based UI and Quick Setup Wizard

N 300Mbps

PL-502P

- Designed for Home Surveillance and Wireless applications
- Homeplug AV Adapter along with IEEE 802.3af PoE Injector
- Up to 15 watts of Inline Power for PoE IP Cameras or Wireless APs
- Data Transfer over the existing Household Power Circuit
- Directly attached to power outlets
- Easy Two Touch Setup

PoE

Data rate up to 300Mbps for wireless 11n networks

Power Line

Living room

Bedroom
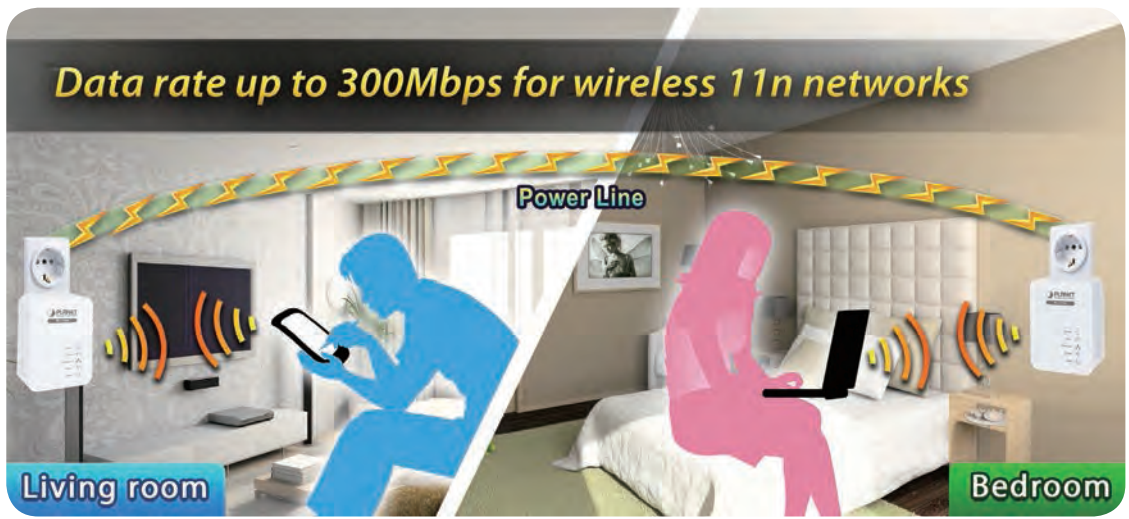
Make Advertising Effective and Easy
HDMI / Video Wall over IP Series

- High-Speed Video Distribution via Gigabit LAN

- Exclusive Video Transmission by IGMP Multicast Technology

- Extended Display Identification Data (EDID) Support

- Easy Video Channel Matching through Network Configuration

▶ **IHD-200PT / IHD-200PR**

HDMI HDTV | Plug & Play | dts 2.0+Digital Out | Gigabit | IGMP | PoE

Network Attached Storage RAID Servers

PLANET NAS provides connectivity to your existing network without requiring extra client access license fees, upgrading or replacing servers. It can be applied to a mixed platform network, and offers fault-tolerant, high-performance and high-availability storage service.

- 1 x 10/100/1000M-Gigabit Ethernet port
- Windows / MAC Utility and Web-based management
- Shares music, pictures, movies and data over network
- Supports BT download, DLNA and iTunes media server
- Supports the most popular OS's including Windows 7 / Vista / XP, Mac OS x v10.5 or above, Linux Kernel 2.6 and above.

NAS-7103

- Provides scalability up to 3TB
- 1 standard USB 2.0 port for external USB HDD
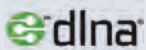
NAS Viewer

NAS Viewer

- 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

NAS Viewer

- 2 x 10/100/1000M-Gigabit Ethernet port for load balancing and failover
- RAID 0, 1, 5, 6, 10 and JBOD
- Simultaneously supports NAS and iSCSI SAN
- Integrates anti-virus engine to protect valuable data
- Revolutionary dual-function NAS server integrates both on-line file services into one centralized storage server
- Multi-protocol system support for Windows, MAC, Solaric, FreeBSD, Linux and other UNIX derivatives

NAS-7410

- 4x hot-swappable and lockable tray
- Intel Atom D525 1M/1.8GHz
- IPv6 / WebDAV

NAS-7450

- 1U rack-mountable
- 4 x hot-swappable and lockable tray
- Intel Celeron 2.0G/1M/533MHz

NAS-7850

- 2U rack-mountable
- 8 x hot-swappable and lockable tray
- Intel Core 2 Duo 2.2G/4M/800MHz
- Redundant power supplies for reliable continuity

HDMI / Video Wall over IP Transmitters / Receivers

IHD-200T / IHD-200R

- Ultra high-quality 1080p video transmitter
- Assigns video sources to any monitor of the video wall
- Supports EDID, HDCP, Blu-ray and DTS
- HDTV compatible, supporting 1080p, 1080i, 720p, 720i
- Extends high-definition video signal over Gigabit LAN and IGMP

IHD-200PT/IHD-200PR

- Ultra high-quality 1080p video transmitter
- Assigns video sources to any monitor of the video wall
- Extends high-definition video signal over Gigabit LAN and IGMP
- Supports EDID, HDCP, Blu-ray and DTS
- Complies with IEEE 802.3af Power over Ethernet

KVM Switches

PLANET's KVM switch family is the most cost-effective and simple solution to controlling a group of PCs on the network. Multiple computers can be managed via only one single set of monitor, keyboard and mouse directly. No software drivers or system configuration are required. The iMac, Power Mac and Sun systems can also be supported by using PLANET's innovative USB-PS2 adapter. Switching among computers is achieved simply by pressing a button on the KVM switch or a pre-defined hotkey on the keyboard or via the KVM's On-screen Display (OSD) function.

DKVM-1708 / DKVM-1716

- Easy to install, single rail design
- High resolution up to 1280 x 1024 @ 75Hz
- Supports 7 OSD languages (continually increasing)
- Heavy-duty electroplated steel
- OSD function for LCD display and KVM switch
- Complies with EIA RS-310C 19" rack mount standard
- Supports Combo KVM module
- Cascade controls 64 / 128 sets of PCs
- Fully supports Logitech/Microsoft / IBM PS/2 mouse / trackball and compatible PS/2 mouse / trackball
- Supports hot plug; not necessary to turn off the original system regardless of a newly installed PC or KVM

IP KVM Switches

IKVM-17080 / IKVM-17160

- Supports Combo KVM module
- Cascade controls 64 / 128 sets of PCs
- Remote mass storage control
- Supports SSL protocol for any encrypted network traffic between itself and a connected client
- Supports 256-bit SSL encryption to protect password and PC

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

Print Servers

All users working with different OS's, such as Windows, Linux, Mac OS and Novell, can print via print server at the same time. Secondly, while the print server is assigned with a legal IP address, local as well as Internet users can print to the attached printer through Internet with IPP printing function.

- Supports 10/100Mbps Auto-Nway, Automatically Negotiates optimal mode with Auto MDI/MDI-X
- Supports TCP/IP, IPX/SPX, AppleTalk, Bi-directional protocol
- HP Web JetAdmin compatible

- Compatible with Windows 95/98/Me/2000/NT/XP/Server 2003/Vista/ Win7, Novell, Linux, Unix, and MAC OS
- Intuitive utility of management supports Windows 98 / 2000 / Me /NT/XP/ Server 2003 / Vista / Win7 and Web-based Management

FPS-1101

- Compliant with standard DB-36 port

FPS-3300

- Compliant with 3 standard DB-36 port

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 EMD is attached, the IPM can check the environment 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 it is an ideal application for your computer power management.

- Actively extended devices via digital outputs
- Versatile sensors supported through EMD (Environmental Monitoring Device) inputs
- Monitors and manages connected devices and sensors remotely
- Control the IPM series manually, or remotely through console or network
- Intelligently turn on / off devices based on event occurrence or planned schedule
- User-friendly interface to display input and output status
- Detailed data-logging for statistical analysis and diagnostics
- Event notification through SNMP trap or email alerts
- Wake-on-LAN (WOL)

- Daily history report through email
- Supports SSL V3 and SSH V1 protocol
- Administrator and multiple users with password protection for double-layer security
- Address-specific IP security masks to prevent unauthorized access
- Comprehensive power management and flexible configuration through web browser, NMS, Telnet, SNMP, or HyperTerminal (console port)

IPM-12001 / IPM-12002

- Twelve power outlets that can be turned on or off in multiple ways, with easy monitoring of current consumption
- Available in 100V~110V, 220V~240V models
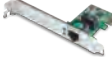
IPM-EMD

- Real-time temperature / humidity and monitoring of other environmental conditions
- Can be located away from the equipment with a straight-through CAT5 network cable
- Automatic events notification via e-mail and SNMP Trap
- Regularly records EMD parameters for statistical analysis and event diagnostics

Ethernet Adapters

Model	ENW-9605	ENW-9701	ENW-9702	ENW-9801	ENW-9803
Product Image					
Attached Interface	32-bit PCI 2.2	x1 PCI Express	x1 PCI Express	PCI Express 2.0	PCI Express 2.0
Network Interface	10/100/1000Base-T	1000Base-X	10/100/1000Base-T	10G Base-SR/LR	10G Base-T
Media Interface	RJ-45	SFP	RJ-45	1 x SFP+ (SFF-8431)	RJ-45
BootROM Socket	●	-	-	-	-
Wake on LAN	●	-	-	-	-
OS Support — Windows 7	●	●	●	-	-
OS Support — Windows XP	●	●	●	●	●
OS Support — Windows 2008	●	●	●	●	●
OS Support — Vista	●	●	●	●	●
OS Support — Linux	●	●	●	●	●

PLANET 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 interactive application zone
- Download center -- FAQ, Support resources

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, promotional DVD 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

Product Line Index

PLANET
Networking & Communication