

2012 Product Guide

Comprehensive Integrated IP Solutions



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



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PLANET @ A Glance

PLANET provides the industry-leading, reliable, and standard-based networking products and solutions to fulfill the demands with 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 the cumulated R&D, manufacturing, and global marketing experiences from the world-class computer science enterprise for years, PLANET is dedicated to provide the high-quality and cost-effective networking applications to satisfy the growing demands of entities from Businesses, Education, Finance, Healthcare and Government. PLANET has been 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 everyday, we deliver right products at right time to the market with the most cost-effective price. PLANET has set out to achieve maximum customer satisfaction on both business and technological requirements. In this respect, "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 up the most professional and solid distributor channels in more than 120 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 enhancing of global branding and local presence, thus creating the mutual business opportunities and profits growing benefits.

Highly Integrated, Efficient, and Centralized IP Office Solution



▶ UMG Series



IP PBX / VoIP

E-mail Server

Internet Security

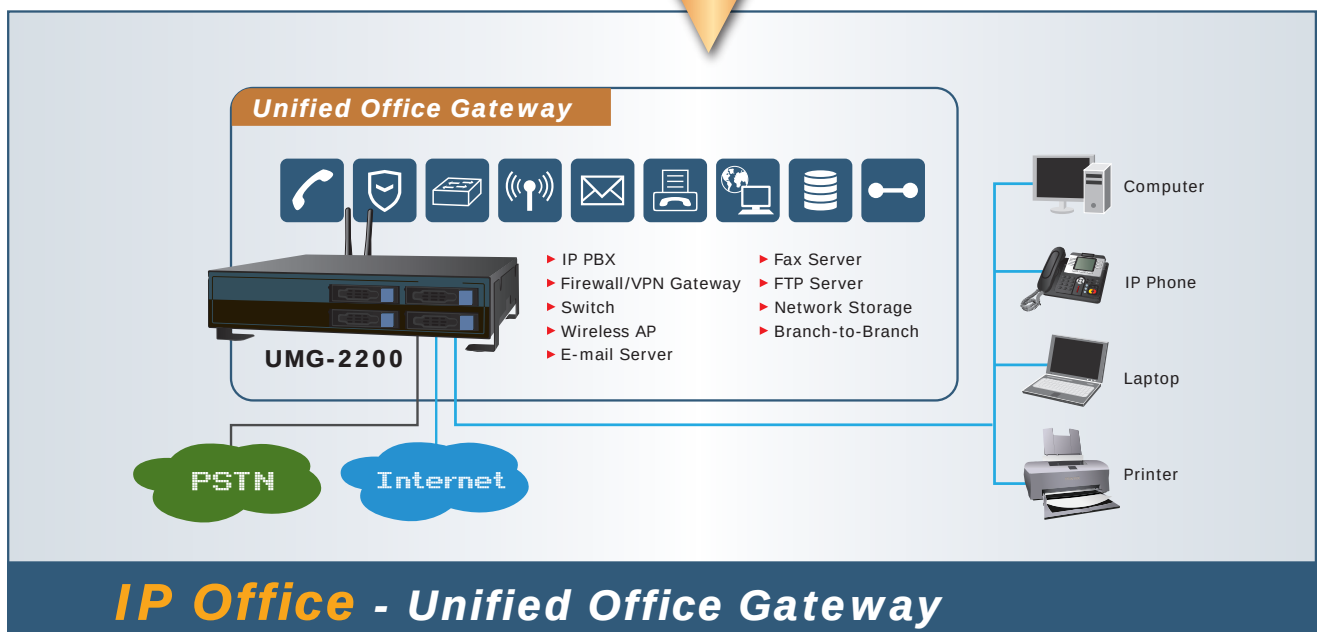
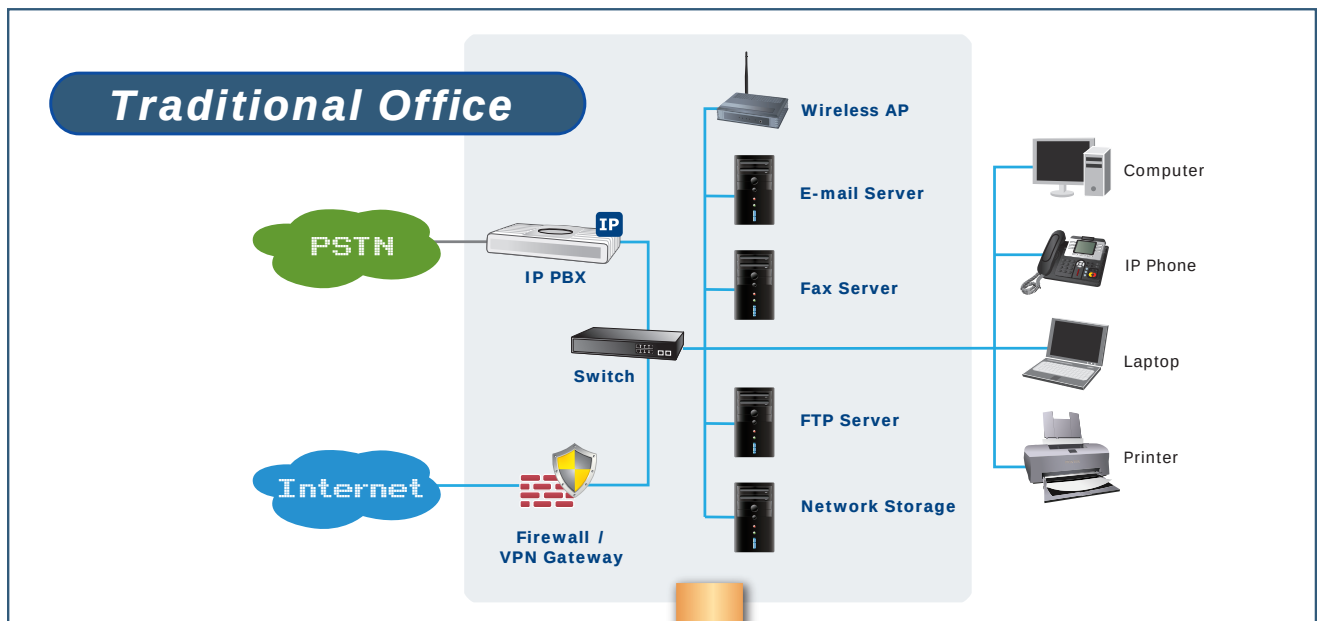
Network Storage

11n WiFi

24 + 2G Switch

Unified Office Gateway - UMG Series

- SIP 2.0 with Multiple SIP Trunk Support
- Telephone Conference, 3-Way Calling
- POP3, SMTP, IMAP and Webmail E-mail Service
- E-mail SSL encryption, Anti-Virus and Anti-Spam
- Support User / Group Privilege ACL
- SSL/PPTP VPN, URL/IM/P2P Blocking & SPI Firewall
- Web Content Filter by Domain and Keyword
- Wireless Access Point Compliant with 802.11b/g/n
- Bridge Line Appearance (BLA) / Busy Lamp Field (BLF) / Least Cost Routing (LCR)
- 24-Port Fast Ethernet and 2-Port Gigabit Ethernet Switch (UMG-2000 series)
- Up to 4TB Hot-Swappable SATA Disk Array with RAID 0, 5, 10 and JBOD (UMG-2000 series)
- 250 max users / extensions with 50 max concurrent sessions (UMG-2000 series)
- 100 max users / extensions with 30 max concurrent sessions (UMG-1000 series)



Key Services

E-mail Service

- Supports POP3, SMTP, IMAP
- Secured Socket Layer (SSL)
- Junk Mail Filtering
- E-mail Storage Quota
- Mail Attachment Size Restriction
- Anti-Virus and Anti-Spam
- Auto Backup, Auto Reply
- E-mail Blacklist Based on Domain
- Supports Web Mail



WiFi Service

- 1 x 802.11b/g/n Wireless Access Point
- Multiple RP-SMA Detachable Antenna
- Security: WEP / WPA / WPA2



Network Storage Service

- RAID 0, 5, 10, and JBOD
- Up to 4TB Hot-swap Disk Array
- Supports User Network Storage Quota
- Scheduled Auto Backup, Auto Snapshot
- Support User / Group Privilege ACL



IP PBX / VoIP Service

- SIP 2.0 (RFC3261)
- Call-Parking, Echo Cancellation
- QoS Support
- Music on Hold
- Telephone Conference, 3-Way Calling
- Voicemail to E-mail
- Forwards to Voicemail on No-Answer
- Supports Call Hold, Call Waiting
- Blacklist of Number Patterns
- Call Privilege Control, Call Log
- 450 Minutes Recording Time
- Unconditional, Unavailable, Busy Call Forward
- Fax Server Support
- 4-Port FXO IP PBX (UMG-2000)
- 1-Port T1/E1 ISDN IP PBX (UMG-2100)
- 8-Port FXO IP PBX (UMG-2200)



24+2G Switch Service

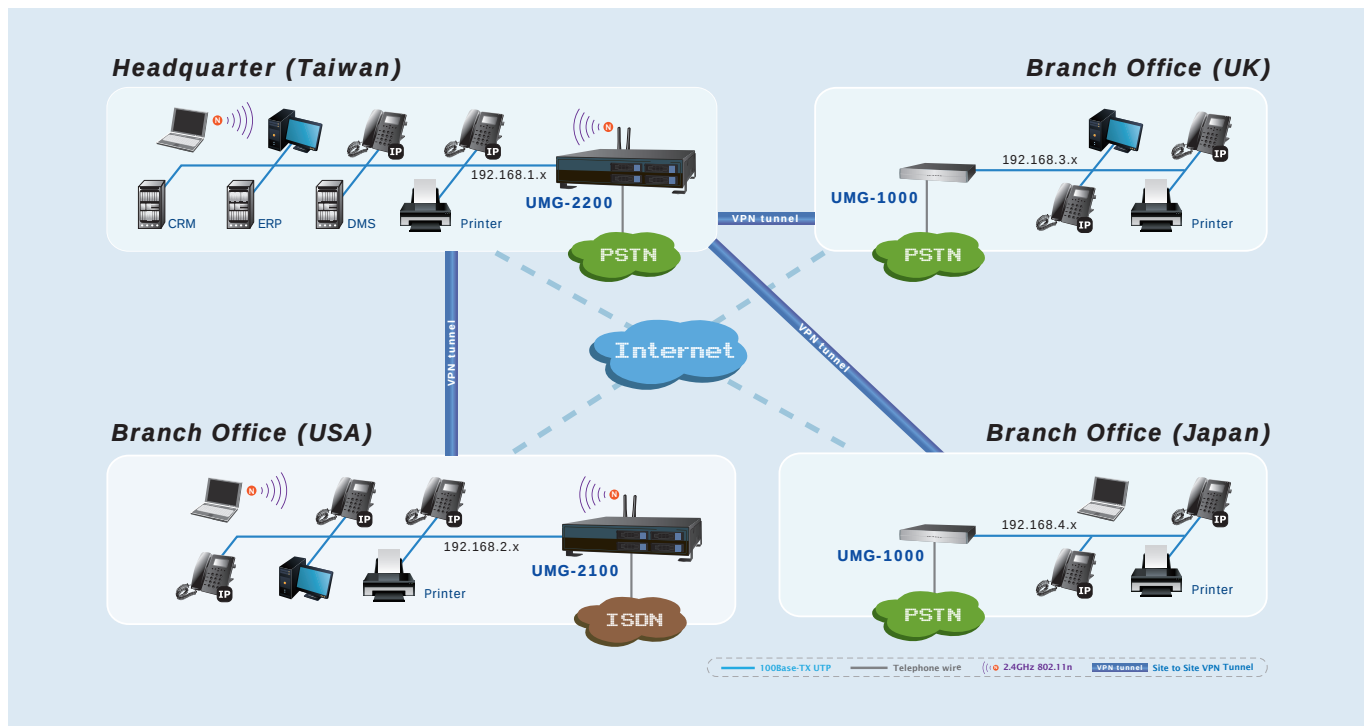
- IEEE 802.1d Spanning Tree
- IGMP Snooping



Internet Security Service

- Static IP, PPPoE, PPTP, DHCP
- Web Content Filter by Domain and Keyword
- Access Control List (ACL)
- URL / IM / P2P Blocking
- DoS Attack Protection
- Site-to-Site SSL VPN
- PPTP VPN Remote Access





Model	UMG-2200	UMG-2100	UMG-2000	UMG-1000
Product Photo				
Hardware				
Dimension	19-inch, 2U Rack mount	19-inch, 2U Rack mount	19-inch, 2U Rack mount	13-inch, Desktop
Network Interface	1 x WAN - 10/100 26 x LAN - 24 10/100 2GbE	1 x WAN - 10/100 26 x LAN - 24 10/100 2GbE	1 x WAN - 10/100 26 x LAN - 24 10/100 2GbE	1 x WAN - 10/100/1000 3 x LAN - 10/100/1000
Voice - FXO ports	8 x FXO	1 x T1/E1 ISDN	4 x FXO	4 x FXO
Wireless AP Support	802.11b/g/n 2T2R	802.11b/g/n 2T2R	802.11b/g/n 2T2R	-
HDD Drive Bay	4 hot swappable slots 3.5-inch SATA	4 hot swappable slots 3.5-inch SATA	4 hot swappable slots 3.5-inch SATA	1 internal slot 2.5-inch SATA
Software				
Support Account	250	250	250	100
Concurrent Voice Calls	50	50	50	30
Voice Compression	G.711u/a-Law, G.726			
Video Compression	H.261, H.263, H.263+, H.264			
RAID	RAID 0,5,10 JBOD	RAID 0,5,10 JBOD	RAID 0,5,10 JBOD	-
PPTP VPN	100 tunnels	100 tunnels	100 tunnels	100 tunnels
SSL VPN	8 tunnels (Site-to-Site)	8 tunnels (Site-to-Site)	8 tunnels (Site-to-Site)	8 tunnels (Site-to-Site)
Protocol	POP3, SMTP, IMAP	POP3, SMTP, IMAP	POP3, SMTP, IMAP	POP3, SMTP, IMAP
Web Mail System	■	■	■	■
E-mail Accounts	250	250	250	100
Anti-Virus	■	■	■	■
Anti-Spam	■	■	■	■
Spanning Tree	■	■	■	-
IGMP Snooping	■	■	■	-

Scalable & Reliable LAN Solution for Enterprises



➤ Scalability, Reliability, Flexibility

Gigabit

PoE

Stackable

Fiber
Optical

IPv6



➤ SGSW-24240
➤ SGSW-24040P

PLANET Ethernet LAN Switch Solution

Enterprise / Government

Multiple QoS and Security features offered by the PLANET Switch Solutions effectively guard the networking bandwidth and security in the enterprises and government.

Community / School

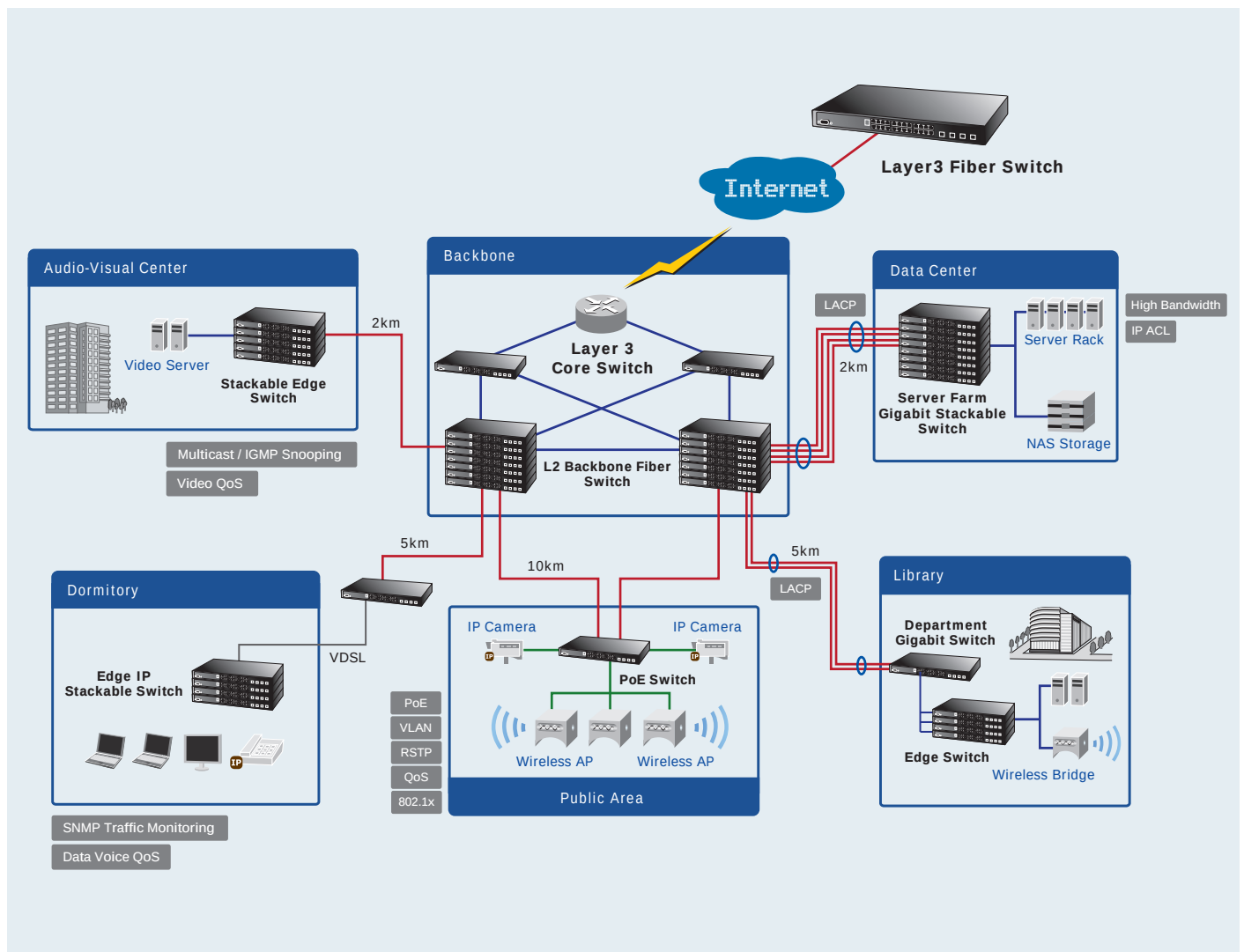
Possessed of fiber link capability and IP segment, the PLANET Switch Solutions connect the broad area network effectively. The centralized management interface of SNMP and web browser supports the administrators easily control all the Switch equipments in any place of the network.

Telecom / ISP

Rich routing protocol is supported in the PLANET Layer 3 Switch Solution. Besides IP Routing, the PLANET Layer 3 Switches also support the advanced Multicast Routing protocol and enable the Telecom and ISP providers which stand as the network back bone to effectively control the emerging multicast stream but not occupy the bandwidth.

SOHO / Home User

The PLANET SOHO / Desktop Ethernet Switch is designed with small size, plug and play and auto cable detect features for easily desktop deployment in the compact housing or SOHO application.



Layer 3 Managed Switches

4-Slot Layer 3 IPv6/IPv4 Routing Chassis Switch

XGS3-42000R

- 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



IPv6



XGS3-M24GX



XGS3-S24G



XGS3-S48G



XGS3-S48GF



XGS3-S4XG

24G + 4 optional 10G Slots Layer 3 Backbone Switch

XGS3-24042

- 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 / L4 Access Control List and IEEE 802.1x support
- SNMPv1/v2c/v3 and RMON Group 1, 2, 3, 9
- IP Stacking management
- 100~240V AC / 12V DC Power Redundant



IPv6

48-Port 10/100TX + 4G Layer 3 Switch

WGS3-5220

- 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
- Spanning Tree Protocol supports IEEE 802.1d/w/s
- IGMP Snooping v1, v2
- L2 / L3 / L4 Access Control List and IEEE 802.1x Port-Based authentication
- SNMPv1/v2c/v3 and RMON Group 1, 2, 3, 9



Model		XGS3-24042	XGS3-42000R	WGS3-5220
Interface	10/100TX	-	-	48
	10/100/1000T	24	188 (Optional)	4
	1000SX/LX	4 (Shared)	156 (Optional)	2 (Shared)
	10G	4 (Optional)	13 (Optional)	-
Layer 3 Routing Protocol		RIPv1/v2, OSPFv2, VRRP IGMP, DVMRP, PIM-DM/SM		
Management		Console, Telnet, Web, SNMPv1/v2c/v3, SSH, SSL		

Layer 2 Managed Stackable Gigabit Switches

24-Port Gigabit Backbone Stackable Switch

SGSW-24040 / SGSW-24040R

- Dual 5G Stacking Ports, up to 16 units
- 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 / MVR
- IEEE 802.1w / 1s Spanning Tree Protocol / BPDU Guard
- QoS Control List / Bandwidth Control / Voice VLAN
- Layer 2 / 3 / 4 Access Control List
- 802.1X / RADIUS / TACACS+ Authentication
- SNMP v1, v2c, v3 and 4 RMON groups
- 100~240V AC / 48V DC Power Redundant (SGSW-24040R)



24-Port Gigabit Fiber Backbone Stackable Switch

SGSW-24240 / SGSW-24240R

- Dual 5G Stacking Ports, up to 16 units and 384 ports
- Each SFP slot supports 100Base-FX and 1000Base-SX/LX transceivers
- 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 / MVR
- IEEE 802.1w / 1s Spanning Tree Protocol / BPDU Guard
- QoS Control List / Bandwidth Control / Voice VLAN
- Layer 2 / 3 / 4 Access Control List
- 802.1X / RADIUS / TACACS+ Authentication
- SNMP v1, v2c, v3 and 4 RMON groups
- 100~240V AC / 48V DC Power Redundant (SGSW-24240R)



24-Port Gigabit PoE Managed Stackable Switch

SGSW-24040P / SGSW-24040P4 (380W)

- Dual 5G Stacking Ports, up to 16 units
- IEEE 802.3af Power over Ethernet / End-Span PSE
- 220Watts / 380Watts PoE Budget, up to 24 PoE powered devices
- Remote PoE power management and monitor
- Configurable PoE Schedule by hour / Weekly basis
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- IEEE 802.1w Rapid Spanning Tree
- QoS Control List / Bandwidth Control
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3



24-Port Gigabit 802.3at PoE Managed Stackable Switch

SGSW-24040HP

- Dual 5G Stacking Ports, up to 16 units
- IEEE 802.3af/802.3at Power over Ethernet / End-Span PSE
- 320Watts PoE Budget, up to 24 PoE powered devices
- Up to 30.8Watts per port
- Remote PoE power management and monitor
- Configurable PoE Schedule by hour / Weekly basis
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- IEEE 802.1w Rapid Spanning Tree
- QoS Control List / Bandwidth Control
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3



Model		SGSW-24040*	SGSW-24040R	SGSW-24240	SGSW-24240R	SGSW-24040P	SGSW-24040P4	SGSW-24040HP
Interface	10/100/1000T	24	24	8	8	24	24	24
	1000SX/LX	4	4	24	24	4	4	4
	100FX	-	-	100FX compatible	100FX compatible	100FX compatible	100FX compatible	100FX compatible
PoE		-	-	-	-	802.3af	802.3af	802.3af 802.3at
Redundant Power		-	-48V DC (-30V~60V)	-	-48V DC (-30V~60V)	-	-	-
Stack Capability		Hardware stacking, up to 16 units						

* Remark: PoE model SGSW-24040P / 24040P4 also available.

Layer 2 Managed Gigabit Switches

24-Port Gigabit Backbone Switch

WGSW-24040 / WGSW-24040R

- 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 / MVR
- IEEE 802.1w / 1s Spanning Tree Protocol / BPDU Guard
- QoS Control List / Bandwidth Control / Voice VLAN
- Layer 2 / 3 / 4 Access Control List
- 802.1X / RADIUS / TACACS+ Authentication
- SNMP v1, v2c, v3 and 4 RMON groups
- 100~240V AC / 48V DC Power Redundant (WGSW-24040R)



28-Port Gigabit Edge Switch

WGSW-28040

- IEEE 802.1Q / Q-in-Q / Private VLAN
- IEEE 802.1w RSTP / 802.1s MSTP
- Layer 2 / 3 / 4 Access Control List
- 802.1X / RADIUS Authentication
- Port Security / MAC Filter
- IGMP Snooping v1, v2 and Querier mode
- Web / Console / Telnet / SSH, SSL
- SNMP v1, v2c and 4 RMON groups
- IPv4 / IPv6 Management



50-Port 10/100/1000Mbps with 4 Shared SFP Managed Gigabit Switch

WGSW-50040

- 100Gbps Non-Blocking Switch Fabric
- IEEE 802.1Q / GVRP VLAN Management
- IEEE 802.1w / 802.1s STP protocol
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3 and 4 RMON Groups
- SSH secure login and 802.1X authentication
- IPv4 / IPv6 management



10-Port Gigabit Backbone Switch

WGSD-10020

- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- IEEE 802.1w/802.1s Spanning Tree Protocol
- Static Port Trunk and IEEE 802.3ad Link Aggregation
- IGMP Snooping v1, v2 and Querier mode
- QoS Control List / Bandwidth Control
- 802.1X / RADIUS Authentication
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3
- IPv6 management



Model		WGSW-24040	WGSW-24040R	WGSW-28040	WGSW-50040	WGSD-10020
Interface	10/100/1000T	24	24	28	50	8
	1000SX/LX	4	4	4	4	2
	100FX	Compatible	Compatible	-	-	Compatible
Redundant Power		-	-48V DC (-30V~60V)	-	-	-
Stack Capability		-	-	-	-	-

* Remark: PoE model WGSW-28040P / WGSD-10020HP also available.

Layer 2 Managed Switches

24-Port 10/100Mbps + 4G Combo Managed Stackable Switch

SGSW-2840 / SGSW-2840R

- IP Stacking management, up to 36 units
- IEEE 802.1Q VLAN / Protocol VLAN / GVRP / Q-in-Q
- IEEE 802.1d / 1w / 1s Spanning Tree Protocol
- Static and IEEE 802.3ad Link Aggregation, up to 8 Trunk groups
- IGMP Snooping v1, v2 and Querier mode
- Policy-Based DiffServ / Bandwidth Control
- 802.1X / RADIUS / SSH / SSL
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3 and RMON
- 100~240V AC / -48V DC power Redundant (SGSW-2840R)



24-Port 10/100Mbps + 2G Combo Managed Switch

FGSW-2620VM

- WEB / SSL / Telnet
- IEEE 802.1Q Tagged based and Port-based VLAN
- IEEE 802.1w Rapid Spanning Tree
- Static Port Trunk and IEEE 802.3ad Link Aggregation
- IGMP Snooping v1 / v2 and Query mode
- IEEE 802.1X / RADIUS Authentication
- Layer 3 / 4 Access Control List
- SNMP v1, v2c 4 RMON groups and SNMP trap



48-Port 10/100Mbps + 4G Combo Managed Switch

WGSW-5242

- Console/Web/SNMP management
- Per port Ingress/Egress bandwidth restriction
- 12 trunk groups, up to 8 ports per trunk
- IEEE 802.1d / 1w / 1s Spanning Tree Protocol
- MAC Binding/Filtering/Learning, configurable MAC Aging time
- IGMP snooping for Multi-media application
- 802.1X / RADIUS / SSH / SSL
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3 and RMON



8-Port 10/100Mbps + 2G Combo Managed Switch

FGSD-1022

- WEB / SSL / Telnet
- IEEE 802.1Q Tagged based and Port-based VLAN
- IEEE 802.1s Multiple Spanning Tree
- Static Port Trunk and IEEE 802.3ad Link Aggregation
- IGMP Snooping v1 / v2 and Query mode
- IEEE 802.1X / RADIUS Authentication
- Layer 3 / 4 Access Control List
- SNMP v1, v2c, v3 4 RMON groups and SNMP trap



Model		SGSW-2840	SGSW-2840R	FGSW-2620VM	WGSW-5242	FGSD-1022
Interface	10/100TX	24	24	24	48	8
	10/100/1000T	4	4	2	4	2
	1000SX/LX	4*	4*	2	2	2
Redundant Power		-	-48V DC (-30V~-60V)	-	-	-
Stack Capability		IP stacking, up to 36 units		-	-	-

Remark: * Port 25/26 100FX compatible.

Layer 2 Web Smart Gigabit Ethernet Switches

24-Port with 4 Shared SFP Web Smart Gigabit Switch

GSW-2404SF

- 24 Port 10/100/1000Mbps auto-negotiation ports
- 4 shared Gigabit SFP ports.
- 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
- Cable Diagnostic technology on copper links



16-Port with 2 Shared SFP Web Smart Gigabit Switch

GSW-1602SF

- 16 Port 10/100/1000Mbps auto-negotiation ports
- 2 shared Gigabit SFP ports.
- 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
- Cable Diagnostic technology on copper links



8-Port 10/100/1000Mbps Web Smart Gigabit Switch

GSD-802S

- 8-Port 10/100/1000Mbps auto-negotiation ports
- 2 shared Gigabit SFP ports
- 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
- 802.1X Port-Based Authentication
- Cable Diagnostic technology on copper links



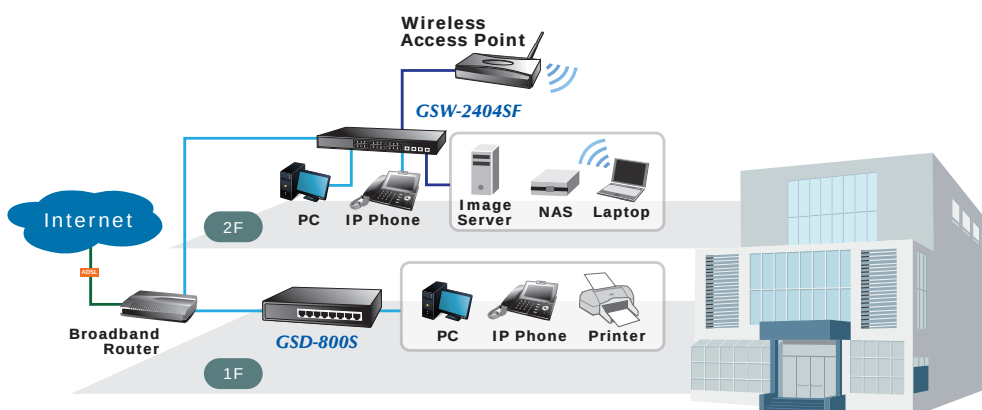
8-Port 10/100/1000Mbps Web Smart Gigabit Switch

GSD-800S

- 8-Port 10/100/1000Mbps auto-negotiation ports
- 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
- 802.1X Port-Based Authentication
- Cable Diagnostic technology on copper links



Model		GSW-2404SF	GSW-1602SF	GSD-802S	GSD-800S
Interface	10/100/1000T	24	16	8	8
	1000SX/LX	4	2	2	-
Dimension		19"	19"	10"	10"



Layer 2 Web Smart Fast Ethernet Switches

48-Port 10/100Mbps + 4G Combo Web Smart Switch

FGSW-4840S

- Remote Web Management interface
- Port-based VLAN, IEEE 802.1Q Tag VLAN and MTU VLAN
- Stack Port trunk, Up to 8 trunk groups
- Port-based priority and IEEE 802.1p priority
- 8k MAC address table auto-ageing



24-Port 10/100Mbps + 2G Combo Web Smart Switch

FGSW-2620CS

- 4K MAC address table, auto-ageing, 8.8G backbone
- Port-based and IEEE 802.1Q Tag VLAN up to 26 VLAN groups
- Static Port Trunking, up to 4 ports and 2 groups max
- Port Mirroring for traffic monitor
- IGMP Snooping v1 and v2
- 4-level priority for switching support Strict priority and WRR
- IEEE 802.1p QoS, DSCP based CoS
- Bandwidth control (Rate Limit) on each port
- MAC address based port security / TCP & UDP Filter security
- WEB-based management
- Support PLANET Smart Discovery Utility



Model		FGSW-4840S	FGSW-2620CS	FSD-624SF
Interface	10/100TX	48	24	4 100 POF
	10/100/1000T	2	2	1
	1000SX/LX	2	2	1
Dimension		19"	19"	Compact

Layer 2 Unmanaged Switches

16/24-Port 10/100/1000Mbps Backbone Switch

GSW-1601 / GSW-2401

- 8K MAC address table
- 9KB Jumbo frame
- MAC address learning and aging
- Auto MDI/MDIX on each port

GSW-1601



GSW-2401

26-Port Department Switch

FGSW-2620

- 24-Port 10/100Mbps auto-negotiation port
- 2-Port 10/100/1000Mbps Uplink Port
- 8K MAC address table
- Store-and-Forward
- 8.8Gbps non-blocking architecture
- MAC address learning and aging
- Auto MDI/MDIX on each port
- CSMA / CD protocol



16/24-Port 10/100Mbps Workgroup Switch

FNSW-1601 / FNSW-2401

- 8K MAC address table
- Store-and-Forward switch architecture
- Flow control to eliminate packets loss
- MAC address learning and aging
- Auto MDI/MDIX on each port
- CSMA / CD protocol
- Green Netowrking Technology for Energy Saving



48-Port 10/100Mbps Workgroup Switch

FNSW-4800

- 8K MAC address table
- Store-and-Forward switch architecture
- Flow control to eliminate packets loss
- MAC address learning and aging
- Auto MDI/MDIX on each port
- CSMA / CD protocol
- Green Netowrking Technology for Energy Saving



Layer 2 Desktop Switches

8-Port Gigabit Desktop Switch

GSD-805

- Green Netowrking Technology for Energy Saving
- Internal Power Supply Unit
- Each Port supports 10/100/1000Mbps Speed
- 8K MAC Address Table Auto-Aging
- Compact size design for wall mount or desktop placement
- 9K Jumbo Frame



8-Port Gigabit Desktop Fiber Switch

GSD-805F

- Green Netowrking Technology for Energy Saving
- Internal Power Supply Unit
- Each Port supports 10/100/1000Mbps Speed
- 8K MAC Address Table Auto-Aging
- Compact size design for wall mount or desktop placement
- 9K Jumbo Frame
- One shared 1000SX/LX SFP Slot



16-Port Metal Case Desktop Switch

FSD-1603

- 4K MAC address table
- Store-and-Forward switch architecture
- Flow control to eliminate packets loss
- MAC address learning and aging
- Auto MDI/MDIX on each port
- CSMA / CD protocol



8-Port Workgroup Switch

FSD-805 / FSD-805SC / FSD-805S15

- 2K MAC address table
- Store-and-Forward switch architecture
- Flow control to eliminate packets loss
- MAC address learning and aging
- Auto MDI/MDIX on each port
- Internal power supply unit
- One shared 100FX port (FSD-805SC/S15)



VDSL2 CO Switches

24-Port VDSL2 CO + 2G TP/SFP Combo Manageable Switch

VC-2400MR

- 24-Port VDSL2 CO subscriber interface
- Built-in POTS splitter
- ITU-T G.993.2, 8a/8b/12a/12b/17a/30a Profiles
- Up to 100/100Mbps data rate under 1000ft
- 802.1Q / Q-in-Q / GVRP VLAN
- IP DSCP QoS and Bandwidth Control
- IGMP Snooping v1/v2 and Query mode
- Layer 3/4 ACL, SSL and Port Security
- SNMP v1/v2c/v3 and 4 RMON Groups
- Two power slots for redundant power support
- Options of 100~240V AC or -48V DC supplies



30a



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

VC-820M

- 8-Port VDSL2 CO subscriber interface
- Built-in POTS splitter
- ITU-T G.993.2, 8a/8b/12a/12b/17a/30a Profiles
- Up to 100/100Mbps data rate under 1000ft
- 802.1Q / Q-in-Q / GVRP VLAN
- IP DSCP QoS and Bandwidth Control
- IGMP Snooping v1/v2 and Query mode
- Layer 3/4 ACL, SSL and Port Security
- SNMP v1/v2c/v3 and 4 RMON Groups



30a

VDSL2 Bridge with 4 10/100 LAN Ports

VC-234

- VDSL2 17a/30a profile
- 100/100Mbps Download/Upload @1000ft
- One box design, CO/CPE selectable via DIP Switch
- 4-Port 10/100Base-TX RJ-45
- Built-in POTS Splitter
- Selectable target profile and target SNR margin

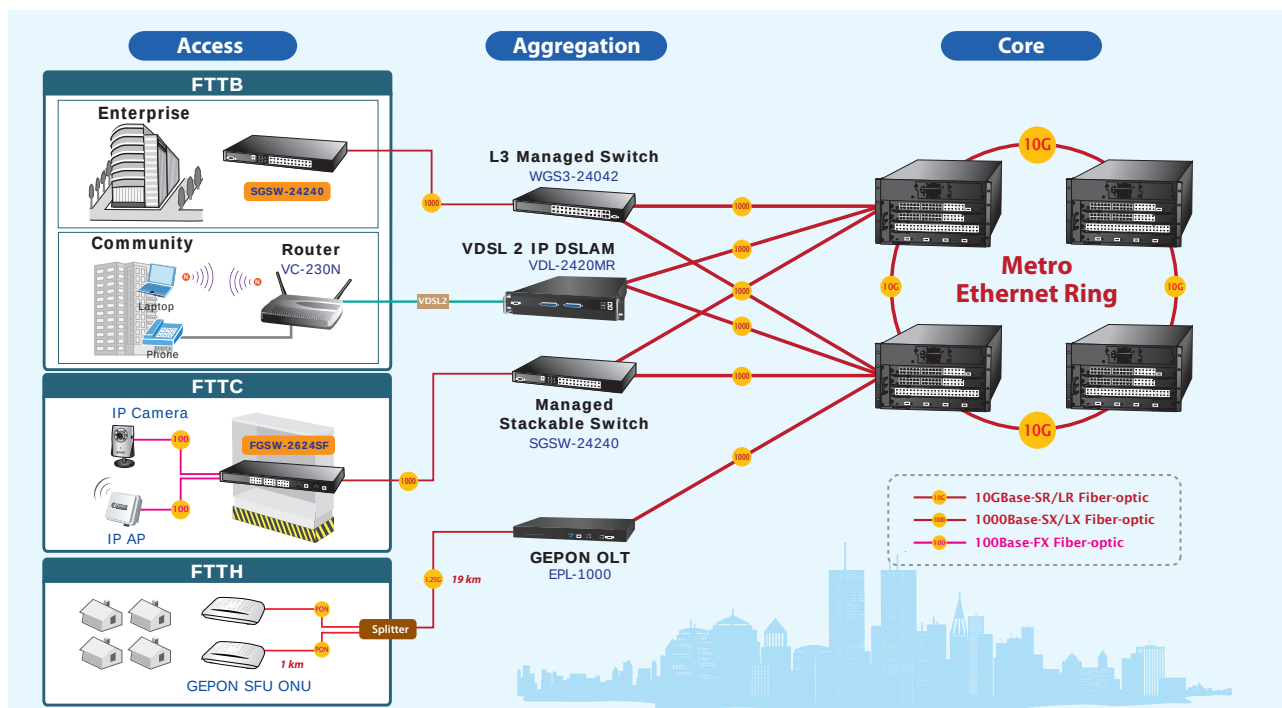


30a

VDSL2 Bridge with 4 10/100 LAN Ports

VC-204

- VDSL2 17a profile
- 100/55Mbps Download/Upload @1000ft
- One box design, CO/CPE selectable via DIP switch
- 4-Port 10/100Base-TX RJ-45
- Built-in POTS splitter
- Selectable target band plan and target SNR margin



SOHO Switches

5/8-Port 10/100Mbps Plastic Desktop Switch

SW-504 / SW-804

- 1K MAC address table
- Store-and-Forward switch architecture
- Flow control to eliminate packets loss
- MAC address learning and aging
- Auto MDI/MDIX on each port
- CSMA / CD protocol



5/8/16-Port Metal Case Desktop Switch

FSD-503 / FSD-803

- 1/2/4K MAC address table
- Store-and-Forward switch architecture
- Flow control to eliminate packets loss
- MAC address learning and aging
- Auto MDI/MDIX on each port
- CSMA / CD protocol



5/8-Port Gigabit Desktop Switch

GSD-503 / GSD-803 / GSD-504 / GSD-804

- 4K MAC address table
- 9KB Jumbo Frame
- Flow control to eliminate packets loss
- MAC address learning and aging
- Auto MDI/MDIX on each port
- CSMA / CD protocol
- Green Netowrking Technology for Energy Saving



GSD-803



GSD-804



4-Port 100Mbps POF +2G TP/SFP Web Smart Switch

FSD-624SF

- 4K MAC address table, 4.8G backbone
- 6 Port-based groups and 32 802.1Q VLAN groups
- Port Mirroring for traffic monitor
- IGMP snooping v1/v2
- 4-level priority for switching support strict priority and WRR, IEEE 802.1P QoS
- MAC address based port security/TCP & UDP Filter Security
- WEB-based management
- Support PLANET Smart Discovery Utility



Rear

SFP Module

1000SX/LX/T SFP Module

MGB-GT	1000Base-T Module
MGB-SX	1000Base-SX mini-GBIC Module
MGB-LX	1000Base-LX mini-GBIC Module
MGB-L30	1000Base-LX mini-GBIC Module, 30km
MGB-L50	1000Base-LX mini-GBIC Module, 50km
MGB-L70	1000Base-LX mini-GBIC Module, 70km
MGB-L120	1000Base-LX mini-GBIC Module, 120km
MGB-LA10	1000Base-LX (WDM,TX: 1310nm) mini-GBIC Module, 10km
MGB-LB10	1000Base-LX (WDM,TX: 1550nm) mini-GBIC Module, 10km
MGB-LA20	1000Base-LX (WDM,TX: 1310nm) mini-GBIC Module, 20km
MGB-LB20	1000Base-LX (WDM,TX: 1550nm) mini-GBIC Module, 20km
MGB-LA40	1000Base-LX (WDM,TX: 1310nm) mini-GBIC Module, 40km
MGB-LB40	1000Base-LX (WDM,TX: 1550nm) mini-GBIC Module, 40km
MGB-TSX	1000Base-SX mini-GBIC Module, -40~75 Degree C
MGB-TLX	1000Base-LX mini-GBIC Module, 10km, -40~75 Degree C

100Base-FX / WDM SFP Module

MFB-FX	SFP-Port 100Base-FX Transceiver (1310nm) -2km
MFB-F20	SFP-Port 100Base-FX Transceiver (1310nm) -20km
MFB-FA20	SFP-Port 100Base-BX Transceiver (WDM,TX:1310nm) -20km
MFB-FB20	SFP-Port 100Base-BX Transceiver (WDM,TX:1550nm) -20km

10G Base-SR/LR SFP+/ XFP Module

MTB-XSR	XFP Port 10GBase-SR Optic Module (Multi-mode / 850nm / max. 300m)
MTB-XLR	SFP+ Port 10GBase-LR Optic module (Single mode / 1310nm / max. 10km)
MTB-LR	SFP+ Port 10GBase-LR mini-GBIC module (Single mode / 1310nm / max. 10km)
MTB-SR	SFP+ Port 10GBase-SR mini-GBIC Module (Multi-mode / 850nm / max. 550m)



MGB-SX/LX

PLANET Complete Industrial Ethernet Solution

Harsh

$-40^{\circ}\text{C} \sim 75^{\circ}\text{C}$

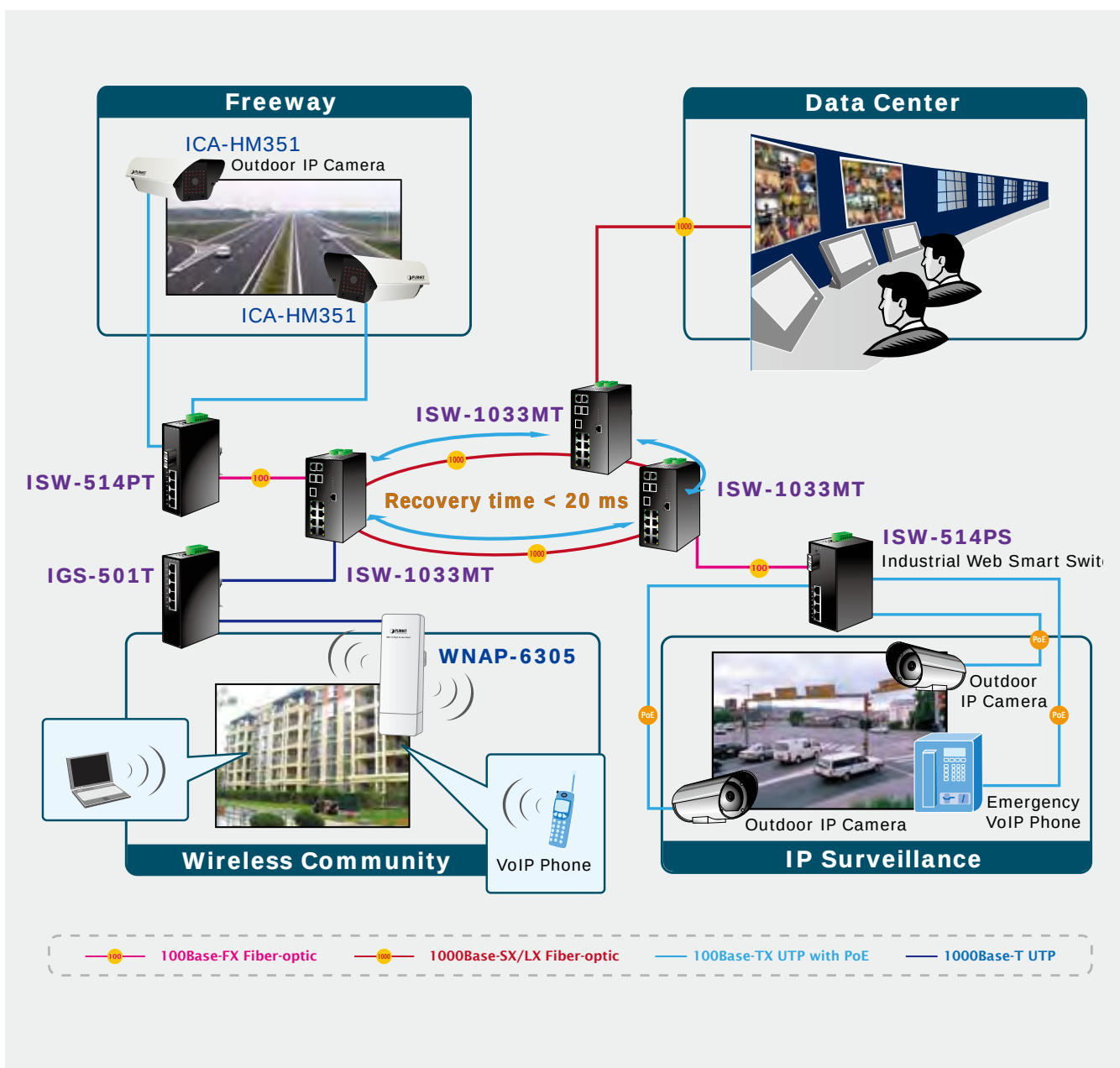


► High Reliability & Connectivity

- M12 Connection
- Manageable
- Ring
- Power over Ethernet (PoE)
- Extender
- Fiber Optical
- Serial
- Media Converter
- Din Rail

Industrial Grade Data and Serial over Ethernet Communication

The PLANET Industrial Ethernet Switches are industrially hardened. Ethernet switch specifically designed to operate reliably in electrically harsh and climatically demanding environments. The Managed Industrial Switch series incorporates Redundant Data Ring technology and redundant power supply system into customers' industrial automation network to enhance system reliability and uptime in the factory harsh environments. It protects customer's industrial network connectivity with switching recovery capability. They provide IP-30 aluminum case and 100Base-FX ports or Gigabit TP/SFP combo interfaces for long distance uplink. The Gigabit fiber optical uplink capability can guarantee the throughput to all nodes hooked into the network and distance can be extended up to above 120 kilometers with SFP module.



Managed Industrial Ethernet Switch

Industrial 24-Port 10/100/1000Mbps with 4 Shared SFP Managed Gigabit Switch

IGSW-24040T

- 24-Port 10/100/1000Mbps with 4 Shared SFP
- Industrial Managed Ethernet Switch
- IP-30 metal case and fan less design, 19" rack-mountable
- Redundant Power System: Dual 36V~72V DC or 100/240V AC
- -40 to 75 Degree C Operating Temperature range
- IEEE 802.1Q VLAN / 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

IPv6



24-Port 10/100Mbps + 4G TP / SFP Combo L2/L4 Industrial Managed Switch

IGSW-2840

- IP-Based WEB, Telnet, SSH, SSL and Console Management
- IP Stacking management, up to 36 units
- SNMP v1, v2c, v3 and 4 RMON Groups
- IEEE 802.1Q VLAN / Protocol VLAN / Private VLAN
- STP / RSTP / MSTP Spanning Tree Protocol
- IGMP Snooping / Policy-Based QoS
- 802.1X / RADIUS / L2 to L4 Access Control List
- Broadcast Storm Control / Bandwidth Control



8-Port 10/100/1000T + 2 100/1000X SFP Industrial Managed Ethernet Switch

IGS-10020M

- IPv6 Web interface/SNMP v1, v2c and v3/SSH/SSL management
- DHCP Snooping/ARP Inspection and IP Source Guard
- 802.1Q VLAN/Private VLAN/Q-in-Q/Protocol-based VLAN/MAC-based VLAN
- 802.1D/1w/1s Spanning Tree Protocol
- QoS Control List/Bandwidth Control, IGMP Snooping v1,v2,v3/MLD Snooping v1,v2
- 802.1X/RADIUS/TACACS + Authentication, Layer 2/3/4 ACL
- 12V to 48V DC, Redundant Power with Polarity Reverse Protection
- -10 to 60 Degree C Operating Temperature
- IP-30 Metal Case/DIN Rail and Wall Mount Design
- Free Fall, Shock, Vibration Industrial Stability

IPv6



8-Port 10/100/1000Mbps Managed Industrial Ethernet Switch

IGS-801M

- IP-Based WEB/SNMP v1,v2c/SNMP Trap management
- 802.1Q VLAN / Port-Based VLAN and 802.3ad LACP Link Aggregation
- 802.1d STR / 802.1w RSTP for Ethernet redundancy
- QoS/IGMP Snooping/Storm traffic control
- 12 to 48V DC redundant power
- -10 to 60 Degree C operating temperature
- IP-30 Metal case / DIN Rail and Wall Mount Design



Model		IGSW-24040T	IGSW-2840	IGS-10020M	IGS-801M
Copper	10/100TX	-	24	-	-
	10/100/1000T	24	4	8	8
	PoE Port	-	-	-	-
Fiber	100FX	Compatible	Compatible	Compatible	-
	1000SX/LX	4 / SFP	4 / SFP	2 / SFP	-
Power Input		36~72V DC Redundant power / 100~240V AC	12~48V DC Redundant power / 100~240V AC	12~48V DC 24V AC	12~48V DC Redundant power
Operating Temperature		-40~75°C*	-30~70°C	-10~60°C	-10~60°C

Remark: * -20~60°C for AC Power input.

Managed Industrial Ethernet Switch

8-Port 10/100Mbps + 2G TP / SFP Managed Industrial Switch

ISW-1022MT

- IP-30 Protection
- SFP(Mini-GBIC) supports 100/1000 Dual Mode
- IEEE 802.1Q Tagged based VLAN and Port-Based VLAN
- 802.1d/w Spanning Tree Protocol
- QoS Mode: Port Base, Tag Base and Type of Service Priority
- IGMP Snooping v1 and v2 and IGMP Query mode for Multicast Media application
- IP address security management to prevent unauthorized intruder
- WEB-based, Telnet, Console Command Line management
- SNMP v1, v2c and v3 and SNMP Trap
- SMTP email for alarm notification of events
- DIN Rail and Wall Mount Design
- Redundant Power Design
- -40~75 Degrees C wide range operating temperature



7-Port 10/100Mbps + 3G TP / SFP Managed Industrial Switch

ISW-1033MT

- IP-30 Protection
- SFP(Mini-GBIC) supports 100/1000 Dual Mode
- IEEE 802.1Q Tagged based VLAN and Port-Based VLAN
- 802.1d/w Spanning Tree Protocol
- QoS Mode: Port Base, Tag Base and Type of Service Priority
- IGMP Snooping v1 and v2 and IGMP Query mode for Multicast Media application
- IP address security management to prevent unauthorized intruder
- WEB-based, Telnet, Console Command Line management
- SNMP v1, v2c and v3 and SNMP Trap
- SMTP email for alarm notification of events
- DIN Rail and Wall Mount Design
- Redundant Power Design
- -40~75 Degrees C wide range operating temperature



Industrial Power over Ethernet

8-Port 10/100/1000Mbps + 2 100/1000X SFP Managed PoE Switch

IGS-10020HP

- 8-Port 10/100/1000Base-T Copper and 2 extra 100/1000Base-X SFP slots
- High Power IEEE 802.3at PoE compliant, up to 30 Watts per PoE port
- IPv6 / IPv4 Web / Telnet SNMP Management
- Secure SNMP v3 / SSH / SSL Management
- 802.1Q VLAN / 802.1s MSTP / 802.3ad LACP / QoS / IGMP Snooping
- 24V/48V DC or 24V AC, Redundant Power System
- -10 to 60 Degree C operating temperature
- IP30 aluminum metal case / DIN-Rail and wall mount design



8-Port 10/100Mbps + 2G TP/SFP Managed Industrial PoE Switch

ISW-1022MPT

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 8 port support 48VDC PoE Power, up to 15.4 watts for each PoE port
- IP-30 Protection
- SFP(Mini-GBIC) supports 100/1000 Dual Mode
- IEEE 802.1Q Tagged based VLAN and Port-Based VLAN
- 802.1d/w Spanning Tree Protocol
- QoS Mode: Port Base, Tag Base and Type of Service Priority
- IGMP Snooping v1 and v2 and IGMP Query mode for Multicast Media application
- WEB-based, Telnet, Console Command Line management
- SNMP v1, v2c and v3 and SNMP Trap
- SMTP email for alarm notification of events
- DIN Rail and Wall Mount Design
- Redundant Power Design
- -40~75 Degree C wide range operating temperature



Model		ISW-1022MT	ISW-1033MT	IGS-10020HP	ISW-1022MPT
Copper	10/100TX	8	7	-	8
	10/100/1000T	2	3	8	2
	PoE Port	-	-	8	8
Fiber	100FX	Compatible	Compatible	Compatible	Compatible
	1000SX/LX	2/SFP	3/SFP	2/SFP	2/SFP
Power Input		12~48V DC Redundant power		24V/48V DC	48V DC
Operating Temperature		-40~75 Degree C	-40~75 Degree C	-10~60 Degree C	-40~75 Degree C

Industrial Power over Ethernet

5-Port 10/100Mbps Industrial Web Smart Switch with 4-Port PoE Injector

ISW-504PS / ISW-514PS

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 4 port support 48V DC PoE Power, up to 15.4 watts for each PoE port
- IP-30 Protection, Rugged metal case
- 24V/48V DC Redundant Power Design
- DIN Rail and Wall Mount Design
- Relay alarm output for power input failure
- Web-based management
- Remote PoE Control / Monitoring



5-Port 10/100Mbps Industrial Switch with 4-Port PoE Injector

ISW-504PT / ISW-514PT

- IEEE 802.3af Power over Ethernet/End-Span PSE
- 4 port support 48V DC PoE Power, up to 15.4 watts for each PoE port
- IP-30 Protection, Rugged metal case
- 24V/48V DC Redundant Power Design
- DIN Rail and Wall Mount Design
- Relay alarm output for power input failure
- -40~75 Degree C wide range operating temperature



4-Port 10/100Base-TX PoE + 1-Port BNC / RJ-11 Industrial Ethernet Extender

IVC-2004PT

- Long reach Ethernet and extend transmission distance:
 - Up to 2.4km (7,874 ft) over coaxial cable
 - Up to 1.4km (4,500 ft) over twisted phone wire
- 4-Port IEEE 802.3af Power over Ethernet Injector/EndSpan PSE
- 15.4Watts full power inject by each PoE Port
- -40~75 Degree C wide range operating temperature
- 48V DC Redundant Power Design
- IP-30 metal case, DIN-Rail & wall mountable hardware design
- One box design, Master/Slave Selectable via DIP Switch



1000X to 10/100/1000T 802.3at PoE Media Converter

IGTP-80xT

- IEEE 802.3at / 802.3af PoE PSE Compliant
- Supply 30W over UTP Cable
- 1000Base-SX Interface For Up to 550m on IGTP-802T
- 1000Base-LX Interface For Up to 10km on IGTP-802TS
- 1000Base-X Single / Multi Mode LC (SFP) Interface on IGTP-805AT
- Link Fault Pass Through (LFP) Supports
- 24V / 48V DC, Redundant Power with Polarity Reverse Protection
- -40 to 75 Degree C Wide Operating Temperature
- IP-30 Metal Case / DIN Rail and Wall Mount Design
- Free Fall, Shock, Vibration Industrial Stability



Model		ISW-504PS ISW-514PS	ISW-504PT ISW-514PT	IVC-2004PT	ISW-804PT-M12	IGTP-80xT	IPOE-162S
Copper	10/100TX	5 / 4	5 / 4	4	8	-	-
	10/100/1000T	-	-	-	-	1	2
	PoE Port	4	4	4	4	1	1
Fiber	100FX	- / 1 SC/2km or 15km	- / 1 SC/2km	-	-	-	-
	1000SX/LX	-	-	-	-	1	-
Power Input		24V/48V DC	24V/48V DC	48V DC	48V DC	24V/48V DC	802.3at 48-56V DC
Operating Temperature		-10~60 Degree C	-40~75 Degree C	-40~75 Degree C	-40~75 Degree C	-40~75 Degree C	-40~75 Degree C

Industrial IP67 Rated Fast Ethernet PoE Switch

ISW-804PT-M12

- 8-Port 10/100Mbps M12, auto-negotiation, auto MDI / MDIX
- 4-Port IEEE 802.3af PoE Ports (Port 5 to port 8)
- Store and Forward switch architecture
- 2K MAC address table
- 48V DC, Redundant power with polarity reverse protection
- -40 to 75 Degree C Wide Operating Temperature
- IP67 Metal case / DIN rail and wall mount design
- Waterproof / dustproof design
- Free Fall, Shock, Vibration Industrial Stability



Industrial IEEE 802.3at High Power over Ethernet Splitter

IPOE-162S

- IEEE 802.3at / 802.3af PoE Standard Compliant
- Passive IEEE 802.3, 802.3u, 802.3ab 10/100/1000Base-T
- Distance up to 100M
- LED indicator power input indication
- Auto-detect of IEEE 802.3af / 802.3at device, protection from being damaged by incorrect installation
- 12V / 24V DC Power output by DIP switch
- -40 to 75 Degree C Wide Operating Temperature
- IP-30 Metal Case / DIN Rail and Wall Mount Design
- Free Fall, Shock, Vibration Industrial Stability



Unmanaged Industrial Ethernet Switch

5 / 8-Port 10/100Mbps Industrial Switch

ISW-501T / ISW-801T

- Rugged Metal case, IP-30 protection
- 12V~48V DC Wide-Rang Redundant Power Design
- Power Polarity reverse protection
- DIN-Rail and 3-way wall mount design
- Relay alarm output for power input failure
- Auto MDI/MDI-X on TP port
- Automatic Address Learning and Aging
- -40~75 Degree C wide range operating temperature



4-Port 10/100Mbps + 1/2 100Base-FX Industrial Switch

ISW-511 / ISW-511T / ISW-621 / ISW-621T / ISW-621TF

- IP-30 protection, Rugged metal case
- Slim type, compact housing design , space saving and easy installation
- 12V~48V DC Wide-Rang Redundant Power Design
- Power Polarity reverse protection
- DIN-Rail and wall mount design
- Relay alarm output for power input failure
- Auto MDI/MDI-X on TP port
- 100Base-FX Fiber link capability for long distance switch deployment
- -40~75 Degree C wide range operating temperature (T Series)



Industrial IP67 Rated Fast Ethernet Switch

ISW-800T-M12

- 8-Port 10/100Mbps M12, auto-negotiation, auto MDI / MDIX
- Store and Forward switch architecture
- 2K MAC address table
- 12~48V DC, Redundant power with polarity reverse protection
- -40 to 75 Degree C wide range operating temperature
- IP67 Metal case / DIN rail and wall mount design
- Waterproof / dustproof design
- Free fall, shock, vibration industrial stability



Industrial IP67 Rated Fast Ethernet Switch

ISW-802TF-M12

- 6-Port 10/100Mbps M12, auto-negotiation, auto MDI / MDIX
- 2-Port 100Base-FX interfaces for 2km transmission distance
- Store and Forward switch architecture
- 2K MAC address table
- 12~48V DC, Redundant power with polarity reverse protection
- -40 to 75 Degree C wide range operating temperature
- IP67 Metal case / DIN rail and wall mount design
- Waterproof / dustproof design
- Free fall, shock, vibration industrial stability



Model	ISW-501T	ISW-801T	ISW-511 ISW-511T	ISW-621 ISW-621T	ISW-621TF	ISW-800T-M12	ISW-802TF-M12
10/100TX	5	8	4	4	4	8	8
100FX	-	-	1/SC/2km*	2/SC/2km*	2/SFP	-	2
Power Input	12~48V DC Redundant power						
Operating Temperature	-40~75°C	-40~75°C	-10~60°C -40~75°C	-10~60°C -40~75°C	-40~75°C	-40~75°C	-40~75°C

* Single mode 15km models are available.

Unmanaged Industrial Gigabit Ethernet Switch

8-Port 10/100/1000Mbps with 2 SFP slots Industrial Ethernet Switch

IGS-802T

- 2 SFP slots support 1000Base-SX/LX/ZX transceivers
- Supports jumbo frame transmission up to 9KB
- -40~75 Degrees C wide range operating temperature
- 12V~48V DC Redundant Power Design
- IP-30 metal case, DIN-Rail and Wall-mountable hardware design
- Relay alarm for power breakdown
- Supports 6KV DC Ethernet ESD protection and supports 6KV DC EFT protection for power line



4-Port 10/100/1000Mbps + 2 SFP slots Industrial Ethernet Switch

IGS-620TF

- 2 SFP slots support 1000Base-SX/LX/ZX transceivers
- Supports jumbo frame transmission up to 9KB
- -40~75 Degrees C wide range operating temperature
- 12V~48V DC Redundant Power Design
- IP-30 metal case, DIN-Rail and Wall-mountable hardware design
- Relay alarm for power breakdown
- Supports 6KV DC Ethernet ESD protection and supports 6KV DC EFT protection for power line



5/8-Port 10/100/1000Mbps Industrial Ethernet Switch

IGS-501T / IGS-801T

- IP-30 protection, Rugged metal case
- Slim type, compact housing design , space saving and easy installation
- 12V~48V DC Wide-Rang Redundant Power Design
- Power Polarity reverse protection
- DIN-Rail and wall mount design
- Relay alarm output for power input failure
- 10G / 16G switch fabric
- Auto MDI/MDI-X on TP port
- Automatic Address Learning & Aging
- -40~75 Degrees C wide range operating temperature (IGS-501T/IGS-801T)



1-Port 10/100/1000Mbps + 2 1000 Base-X Industrial Fiber Media Converter

IGT-1205AT

- Dual 1000 Base-SX/LX SFP fiber optic
- 3-Port data auto-switching
- 12 to 48V DC power inputs
- Auto MDI/MDI-X on TP port
- Relay alarm output for power failure
- IP-30 case, DIN-Rail or wall mountable
- -40 to 75 Degree C wide range operating temperature



Model		IGS-802T	IGS-620TF	IGS-501T	IGS-801T	IGT-1205AT
Copper	10/100TX	-	-	-	-	-
	10/100/1000T	8	8	5	8	1
Fiber	1000SX/LX	2 / SFP	2 / SFP	-	-	2 / SFP
Power Input		12~48V DC Redundant power				
Operating Temperature		-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C

Industrial Media Converter

Industrial Fiber Converter

IFT-802T / IFT-802TS15 / IFT-805AT

- 12 to 48V DC power inputs
- Auto MDI/MDI-X on TP port
- Relay alarm output for power failure
- DIN-Rail or wall mountable
- IP-30 case
- -40 to 75 Degree C wide range operating temperature



Industrial Managed Gigabit Ethernet Media Converter

IGT-902 / IGT-902S / IGT-905A

IGT-902T / IGT-902TS

- Built-in IP-based Web interface and SNMP v1/v2c for remote management
- TS-1000 OAM/IEEE 802.3ah OAM/ Loop Back Test
- 12V to 48V DC, redundant power with polarity reverse protec function
- -30 to 75 Degree C (IGT-902T / IGT-902TS) operating temperature
- IP-30metal case / DIN-Rail and Wall-mountable design



Model		IFT-802T	IFT-802TS15	IFT-805AT	IGT-902	IGT-902S	IGT-905A
Copper	10/100TX	1	1	1	-	-	-
	10/100/1000T	-	-	-	1	1	1
Fiber	100FX	SC / 2km	SC / 15km	SFP	-	-	-
	1000SX/LX	-	-	-	1 x SC / 550m	1 x SC / 10km	1 x SFP
Power Input		12~48V DC Redundant power					
Operating Temperature		-40~75°C			-10~60°C*		

Remark: * IGT-902T / IGT-902TS supports -30~75°C.

Industrial RS-232/ RS-422/ RS-485 over Ethernet Media Converter

ICS-2100 / ICS-2102 / ICS-2102S15

- Cost effective for RS-232/ RS-422/ RS-485 to Ethernet application
- Standard TCP/IP interface and versatile operation modes
- Built-in IP-Based Web interface for remote management
- IP-30 Metal case protection
- 12 to 48V DC, Redundant power
- -10 to 60 Degree C operating temperature



Industrial Ethernet over VDSL2 Converter

IVC-2002

- Cost effective VDSL2 Master/Slave bridge solution
- One box design, Master/Slave selectable via DIP Switch
- IP-30 Metal case / protection
- DIN Rail / Wall Mount design
- 12 to 48V DC, Redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
- -40 to 75 Degree C wide range operating temperature



Model		ICS-2100	ICS-2102	ICS-2102S15
Copper	10/100TX	1	-	-
Fiber	100FX	-	SC / 2km	SC / 15km
RS-232		1 x DB9 male		
RS-422/485		4 Pin Terminal Block		
Power Input		12~48V DC Redundant power		
Operating Temperature		-10~60°C		

Model	IVC-2002
Copper	4 x 10/100TX
Extender Port	Coaxial / RJ-11
Power Input	12~48V DC Redundant power
Operating Temperature	-40~75°C

Power over Ethernet

Best Power Solution for
IP Surveillance & Outdoor Wireless

Data+Power



Office VoIP Phone, Wireless AP & IP Surveillance power deployment solution

PoE IP Telephony

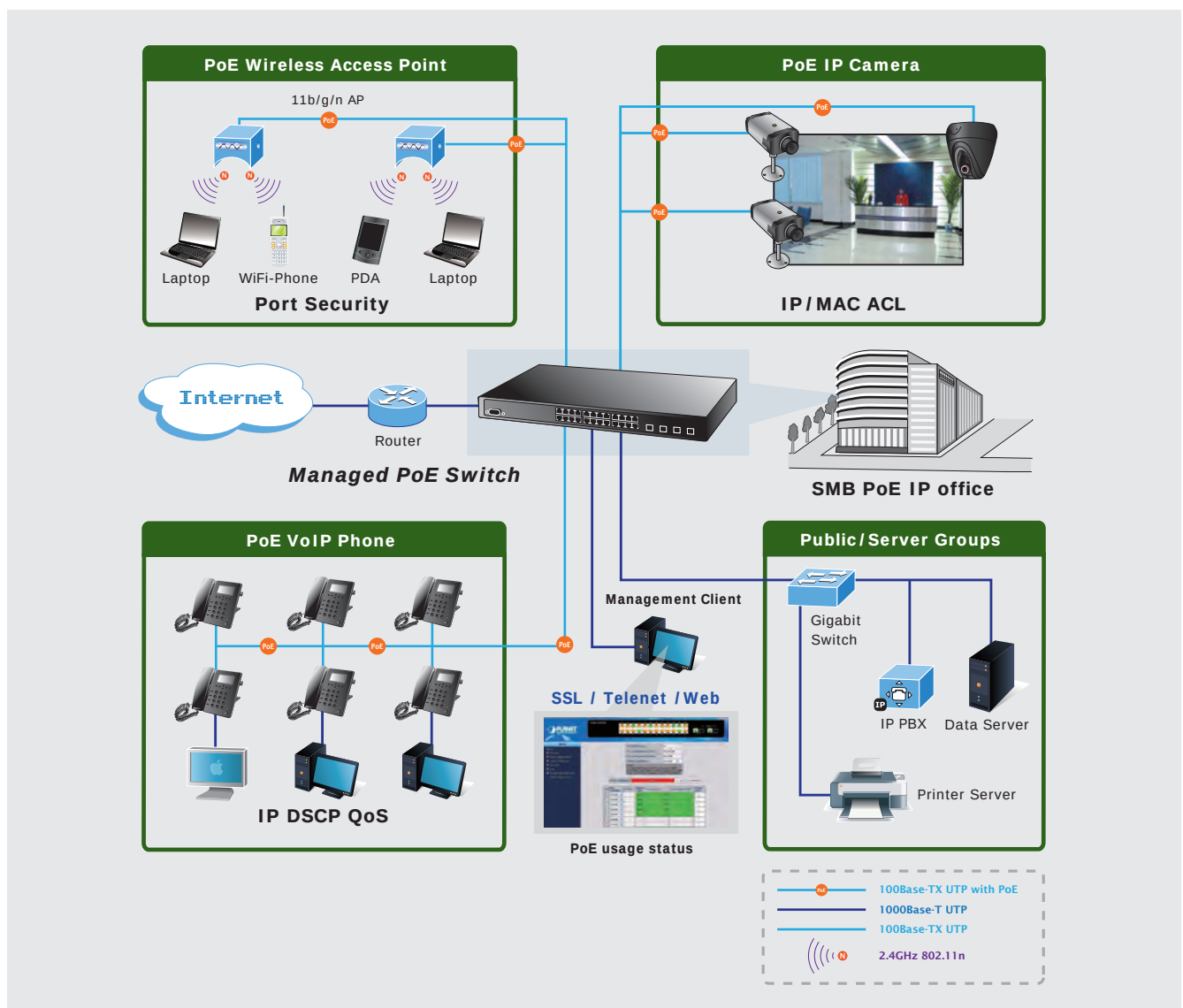
PLANET IEEE 802.3af compliant IP phones can be installed without requirement of an additional power cable because the power can be provided from the standard Ethernet cable. IP Telephony becomes more reliable and cheaper to install, which helps enterprises save tremendous cost when upgrading to IP Telephony communications infrastructure.

PoE Wireless & IP Surveillance

While video surveillance system becomes more and more important for visible security in the office or public area, the IP cameras with PoE function would be a lot helpful for the surveillance deployment and wireless AP when the

power outlet not easily found in the ceiling or in the outdoor. The PoE IP camera or Wireless AP can be installed anywhere it is needed regardless of the restrictions of power outlet locations. PLANET PoE solution helps enterprise to create an integrated data, voice and powered network.

- ❖ Simply the installation of network appliances
- ❖ Flexible network deployment options
- ❖ Safe powering of standard compliant as well as legacy devices
- ❖ Investment protection of existing Ethernet switches and cabling infrastructure
- ❖ Centralizing power delivery and management solution



Layer 2 Managed High Power 802.3at PoE Switches

24-Port Gigabit 802.3at PoE Managed Stackable Switch

SGSW-24040HP

- Dual 5G Stacking Ports, up to 16 units
- IEEE 802.3af/802.3at Power over Ethernet / End-Span PSE
- 360Watts PoE Budget, up to 24 PoE powered devices
- Up to 30.8 Watts per port
- Remote PoE power management and monitor
- Configurable PoE Schedule by hour / Weekly basis
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- IEEE 802.1w Rapid Spanning Tree
- QoS Control List / Bandwidth Control
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3



24+2G TP/SFP Managed 802.3at PoE Switch

WGSW-2620HP

- IEEE802.3af/802.3at power over Ethernet / End-Span PSE
- Remote PoE power management and monitor
- Up to 30.8 Watts per port / 320W total PoE budget
- 802.1Q / Q-in-Q / Port-Based VLAN
- 802.1D STP / 802.1S MSTP
- Static Port Trunk /802.3ad LACP
- TOS/DSCP QoS and Bandwidth Control
- L2 / L3 / L4 ACL, SSL and Port Security
- SNMP v1 / v2c / v3 and 4 RMON Groups



10-Port Gigabit 802.3at PoE Managed Switch

WGSD-10020HP

- IPv4 / IPv6 Management and SSH / SSL Secure Management
- IEEE802.3at/802.3af power over Ethernet
- 150 watts total PoE budget
- DHCP Snooping / ARP Inspection and IP Source Guard
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- IEEE 802.1w / 1s Spanning Tree Protocol
- QoS Control List / Bandwidth Control
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3 and 4 RMON groups



8+2G TP/SFP Managed 802.3at PoE Switch

FGSD-1022HP

- High Power IEEE 802.3at PoE compliant, up to 30 Watts per PoE port
- IEEE 802.3af PoE compliant, up to 15.4 Watts per PoE port
- 150 watts total PoE budget
- Over temperature / usage threshold PoE budget auto control
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- Layer 3 / 4 Access Control List
- SNMP v1, v2c, v3 and RMON



Model	SGSW-24040HP	WGSD-10020HP	WGSW-2620HP	FGSD-1022HP
10/100TX	-	-	24	8
10/100/1000T	24	8	2	2
1000SX/LX	4	2	2	2
No. of Class 4 PDs	10	5	10	5
No. of Class 3 PDs	24	8	24	8
PoE Power Budget	360Watts	150Watts	360Watts	150Watts

Layer 2 Managed PoE Switches

24-Port Gigabit PoE Managed Stackable Switch

SGSW-24040P / SGSW-24040P4 (380W)

- Dual 5G Stacking Ports, up to 16 units
- IEEE 802.3af Power over Ethernet / End-Span PSE
- 220Watts / 380Watts PoE Budget, up to 24 PoE powered devices
- Remote PoE power management and monitor
- Configurable PoE Schedule by hour / Weekly basis
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- IEEE 802.1w Rapid Spanning Tree
- QoS Control List / Bandwidth Control
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3



24-Port Gigabit PoE + 4-Port Gigabit TP/SFP Managed Switch

WGSW-28040P / WGSW-28040P4 (380W)

- IPv6/IPv4 Web / Telnet / SNMP v1, v2c / SSH / SSL Management
- IEEE 802.3af Power over Ethernet / End-Span PSE
- 180 Watts / 380 Watts PoE Budget / Remote PoE Power control
- IEEE 802.1D / 1w / 1s Spanning Tree Protocol
- IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
- QoS Control List / Bandwidth Control
- Layer 3 / 4 Access Control List



24-Port 10/100Mbps + 4 Gigabit TP/SFP Combo PoE Managed Switch

SGSW-2840P / SGSW-2840P4 (380W)

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 220Watts / 380Watts PoE Budget, up to 24 PoE powered devices
- Web interface for remote PoE power management and monitor
- Power feeding on/off and priority configuration
- IP Stacking management, up to 36 units
- IEEE 802.1Q VLAN / Protocol VLAN / GVRP / Q-in-Q
- IEEE 802.1d / 1w / 1s Spanning Tree Protocol
- IGMP Snooping v1, v2 and Querier mode
- Policy-Based DiffServ / Bandwidth Control
- 802.1X / RADIUS / SSH / SSL
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3 and RMON



24 + 2G TP/SFP Standalone Managed PoE Switch

FGSW-2620PVM / FGSW-2620VMP4

- 24 10/100Mbps PoE "Data + Power"
- Remote PoE power management and monitor
- Up to 15.4 Watts per port / 190W/ 380W Total PoE Budget
- 802.1Q / Q-in-Q / Port-Based VLAN
- 802.1D STP / 802.1W RSTP
- Static Port Trunk / 802.3ad LACP
- TOS/DSCP QoS and Bandwidth Control
- L2 / L3 / L4 ACL, SSL and Port Security
- SNMP v1 / v2c and 4 RMON Groups



Model	SGSW-24040P	SGSW-24040P4	WGSW-28040P	WGSW-28040P4	SGSW-2840P	SGSW-2840P4	FGSW-2620VMP4	FGSW-2612PVM	FGSW-2620PVM	FGSD-1022P
10/100TX	-	-	-	-	24	24	24	24	24	8
10/100/1000T	24	24	28	28	4	4	2	2	2	2
No.of PDs	24	24	24	24	24	24	24	12	24	8
PoE Power Budget	220Watts	380Watts	180Watts	380Watts	220Watts	380Watts	380Watts	110Watts	190Watts	180Watts
Stack Capability	Hardware Stacking, up to 16 units				IP Stacking, up to 36 units			-	-	-

Layer 2 Managed PoE Switches

24 + 2G TP/SFP Standalone Managed PoE Switch

FGSW-2612PVM

- 12 10/100Mbps PoE "Data + Power"
- Remote PoE power management and monitor
- Up to 15.4 Watts per port / 110W Total PoE Budget
- 802.1Q / Q-in-Q / Port-Based VLAN
- 802.1D STP / 802.1W RSTP
- Static Port Trunk / 802.3ad LACP
- TOS/DSCP QoS and Bandwidth Control
- L2 / L3 / L4 ACL, SSL and Port Security
- SNMP v1 / v2c and 4 RMON Groups



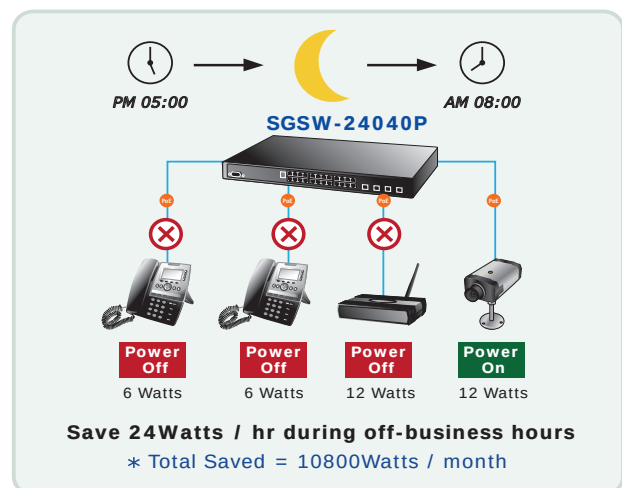
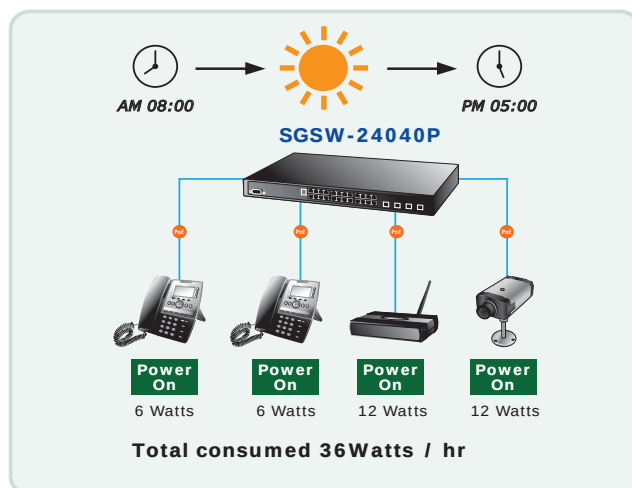
8-Port 10/100Mbps + 2 Gigabit TP/SFP Combo PoE Managed Switch

FGSD-1022P

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 180Watts PoE Budget, up to 8 PoE powered devices
- Web interface for remote PoE power management and monitor
- Power feeding on/off and priority configuration
- IEEE 802.1Q VLAN / Protocol VLAN / GVRP / Q-in-Q
- IEEE 802.1d / 1w / 1s Spanning Tree Protocol
- IGMP Snooping v1, v2 and Querier mode
- Policy-Based DiffServ / Bandwidth Control
- 802.1X / RADIUS / SSH / SSL
- Layer 2 / 3 / 4 Access Control List
- SNMP v1, v2c, v3 and RMON

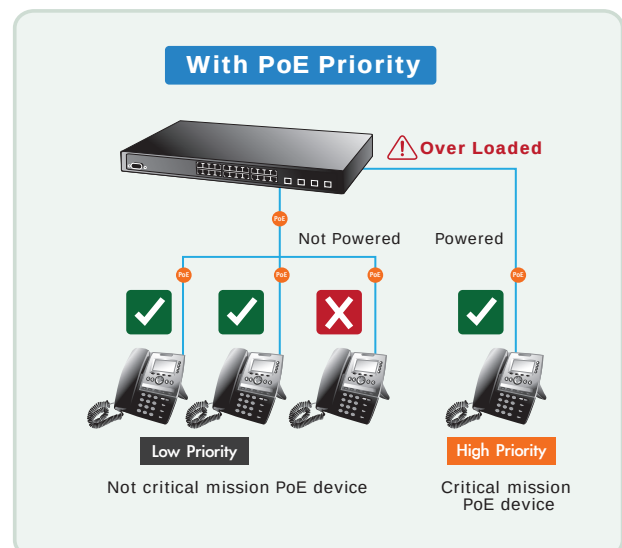
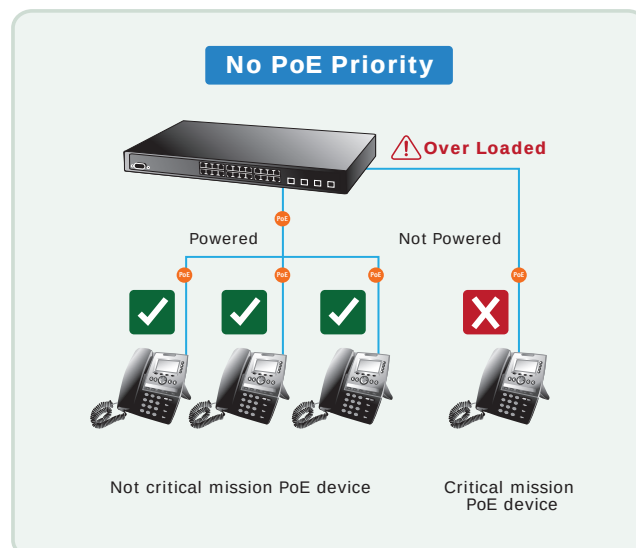


PLANET PoE Schedule for Power Saving



100Base-TX UTP with PoE

PLANET PoE Priority for Critical Services - Example on VoIP System



100Base-TX UTP with PoE

Web Smart PoE Switches

8-Port 10/100/1000Mbps with 2 Shared SFP PoE Web Smart Switch

GSD-802PS

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 110Watts PoE Budget, up to 8 PoE powered devices
- Web interface for remote PoE power management & monitor
- Power feeding on/off and priority configuration
- PoE Power up to 15.4 Watts for each PoE port
- IEEE 802.1Q Tagged based and Port-based VLAN
- Support IGMP Snooping v1/v2 and IGMP Query
- IEEE 802.1w Rapid Spanning Tree protocol
- 802.1X Port-Based Authentication
- 13" Desktop size, 19" rack mountable



16-Port 10/100Mbps PoE Web Smart Switch

FNSW-1608PS / FGSW-1828PS

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 110Watts PoE Budget, up to 8 PoE powered devices
- Web interface for remote PoE power management & monitor
- Power feeding on/off and priority configuration
- Support PoE Power up to 15.4 Watts for each PoE port
- Port-based and IEEE 802.1Q Tag VLAN up to 26 VLAN groups
- Static Port Trunking, up to 8 ports and 8 groups max
- IGMP Snooping v1 and v2 for multicast group control
- IEEE 802.1p / DSCP based QoS
- 2-Port Gigabit TP/SFP Uplink port for long distance deployment



24-Port 10/100Mbps PoE Switch

FNSW-2400PS

- 130Watts PoE Budget, up to 24 PoE power devices
- IEEE 802.3 af Power over Ethernet / End-Span PSE
- PoE Power up to 15.4 Watts per port
- Remote Web Management
- Support IEEE 802.1w Rapid Spanning Tree
- Port-based / IEEE 802.1Q / VLAN
- Port mirror, LACP Trunk function
- QoS, bandwidth control & MAC address filter on each port
- IGMP Snooping v1/v2
- SNMP v1 Network Management



8-Port 10/100Mbps Switch with 4-Port PoE Inject

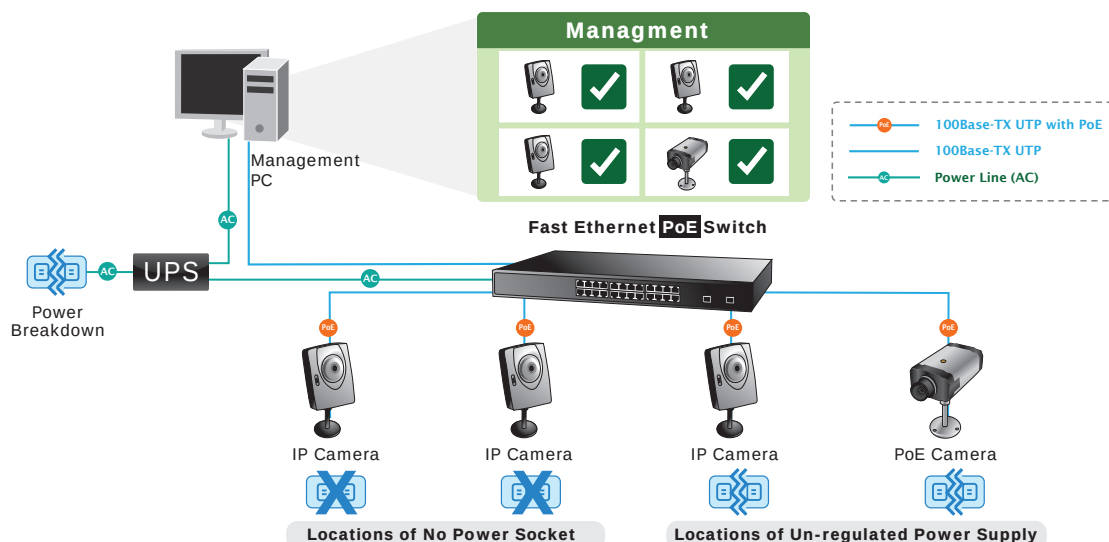
FSD-804PS

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 55Watts PoE Budget, up to 4 PoE powered devices
- Web interface for remote PoE power management and monitor
- Power feeding on/off and priority configuration
- PoE Power up to 15.4 Watts for each PoE port
- Port-based and IEEE 802.1Q Tag VLAN up to 8 VLAN groups
- IEEE 802.1p / DSCP based QoS
- 10" / 19" rack mountable



Model	FSD-804PS	GSD-802PS	FNSW-1608PS	FGSW-1828PS	FNSW-2400PS
10/100TX	8	-	16	16	24
10/100/1000T	-	8	-	2	-
No. of PDs	4	8	8	8	24
PoE Power Budget	60Watts	110Watts	110Watts	110Watts	130Watts

Non-Stop Operating via PoE System - Example on Surveillance System



Unmanaged PoE Switches

8-Port Gigabit 802.3at PoE Desktop Switch

GSD-808HP

- IEEE 802.3at / 802.3af PoE Standard Compliant
- End-Span PSE / 130 Watts PoE Budget
- Per Port Supports Up to 30 Watts PoE Power
- Auto PoE Detection and Plug & Play Installation
- 8K MAC Address Table / 9K Jumbo Packet Size
- LED Indicators for Network Diagnostic / PoE Used Percentage
- Auto-Negotiation, Auto-MDI/MDI-X
- Desktop-Size Metal Case, Internal Power Design



8-Port 10/100/1000Mbps with 4-Port PoE Ethernet Switch

GSD-804P

- IEEE 802.3af Power over Ethernet standard
- 4-Port PoE, up to 15.4 Watts per port
- Auto PoE detection and Plug & Play installation
- Auto-negotiation, Auto-MDI/MDI-X
- LED indicators for easy network diagnostic
- Desktop-size metal case, internal power design



16-Port 10/100Mbps PoE Fast Ethernet Switch

FNSW-1600P

- IEEE 802.3af Power over Ethernet / Mid-Span PSE
- Per port supports 15.4 Watts output
- Auto PoE Detection and Plug & Play Installation
- 130 Watts PoE power budget
- 8K MAC Address Table Size
- Auto-Negotiation and Auto-MDI/MDI-X Uplink
- Metal case, internal power design



8-Port 10/100Mbps 802.3af PoE Fast Ethernet Switch

FSD-808P

- 8-Port 10/100Mbps POE Fast Ethernet ports
- Complies with IEEE 802.3af Power over Ethernet Mid-Span PSE
- Supports PoE Power up to 15.4 Watts for each PoE port
- Remote power feeding up to 100m
- Hardware based 10/100Mbps Auto-Negotiation and Auto MDI/MDI-X
- Flow control for Full Duplex operation and back pressure for Half Duplex operation
- Integrates address look-up engine, supporting 2K absolute MAC addresses



8-Port 10/100Mbps Switch with 4-Port PoE Inject

FSD-804P

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 55Watts PoE Budget, up to 4 PoE powered devices
- PoE Power up to 15.4 Watts for each PoE port
- Auto-Negotiation and Auto-MDI/MDI-X Uplink
- Metal case, internal power design
- 10" / 19" rack mountable



Model	GSD-808HP	GSD-804P	FNSW-1600P	FSD-808P	FSD-804P
PoE Standard	802.3at, 802.3af	802.3af	802.3af	802.3af	802.3af
10/100TX	-	-	16	8	8
10/100/1000T	8	8	-	-	-
No. of PDs	8	4	16	8	4
PoE Power Budget	130Watts	55Watts	130Watts	130Watts	55Watts

High Power 802.3at PoE Injector Hub

12/24-Port Gigabit IEEE 802.3at PoE Web Management injector Hub

HPOE-1200G / HPOE-2400G

- IEEE 802.3af & 802.3at Power over Ethernet / Mid-Span PSE
- Up to 30.8 Watts per port
- Supports 12/24-Port 10/100/1000Mbps PoE inject
- Complies with IEEE 802.3af Power over Ethernet Mid-Span PSE
- Supports Network Time Protocol
- PoE Power Schedule
- Over Temperature Protection
- SNMP Management
- Web and SNMP interface for remote management

30W



4-Port IEEE 802.3at High Power over Ethernet Injector Hub

HPOE-460

- Complies with IEEE 802.3 / 802.3u / 802.3ab 10/100/1000Base-T
- IEEE 802.3at 4-Port In-line Mid-span High Power Injector Hub
- Full Power Supports Per PoE Port
- Per port 802.3af 15.4W / 802.3at 30W PoE power output
- LED Indicator for Power Input Indication
- Desktop Palm Size and Plug & Play

30W



Model	HPOE-1200G HPOE-2400G	HPOE-460	POE-1200G POE-2400G	POE-1200/POE-1200P2	POE-2400 POE-2400P4	POE-400
PoE Standard	802.3af & 802.3at	802.3af & 802.3at	802.3af	802.3af	802.3af	802.3af
Speed	10/100/1000	10/100/1000	10/100/1000	10/100	10/100	10/100
No. of PDs	12/24	4	12/24	12	24	4
PoE power Budget	340Watts/ 460Watts	120Watts	190Watts/ 380Watts	110Watts/ 190Watts	220Watts/ 380Watts	65Watts

802.3af PoE Injector Hub

12/24-Port Gigabit IEEE 802.3af PoE Web Management injector Hub

POE-1200G / POE-2400G

- Supports 12/24-Port 10/100/1000Mbps PoE inject
- Complies with IEEE 802.3af Power over Ethernet Mid-Span PSE
- Supports Network Time Protocol
- PoE Power Schedule
- Over Temperature Protection
- SNMP Management
- Web and SNMP interface for remote management



12/24-Port 802.3af PoE Web Smart Injector Hub

POE-1200 / POE-1200P2 / POE-2400 / POE-2400P4

- IEEE 802.3af Power over Ethernet / Mid-Span PSE
- 110/190/220/380Watts PoE Budget, up to 12/24 PoE powered devices
- Web interface for remote PoE power management & monitor
- Power feeding on/off, power limit and priority configuration
- Support PoE Power up to 15.4 Watts for each PoE port
- 24 / 48-Port RJ-45 STP with 12 / 24-Port "Data" and 12 / 24-Port "Data + Power output"
- Remote power feeding up to 100m
- SNMP traps for alarm notification of events
- 19" rack mountable



4-Port 802.3af PoE Injector Hub

POE-400

- IEEE 802.3af Power over Ethernet / Mid-Span PSE
- 65Watts PoE Budget, up to 4 PoE powered devices
- Support PoE Power up to 15.4 Watts for each PoE port
- 8-Port RJ-45 STP with 4-Port "Data" and 4-Port "Data + Power output"
- Remote power feeding up to 100m
- Compact size, wall mountable



PoE Extender

IEEE 802.3at/af Power over Ethernet Extender

POE-E201

- Complies with IEEE 802.3at/af Power over Ethernet
- Extends the range of PoE an additional 100 meters (328ft.)
- Forwards both Ethernet data and PoE power to remote device
- Automatically detects and protects PoE equipments
- Multiple units, daisy-chain installation support
- No external power cable required for installation
- Compact size, Wall-Mountable design
- Plug-and-Play
- 10/100/1000 Data Rate



IEEE 802.3af Power over Ethernet Extender

POE-E101

- Complies with IEEE 802.3af Power over Ethernet
- Extends the range of PoE an additional 100 meters (328ft.)
- Forwards both Ethernet data and PoE power to remote device
- Automatically detects and protects PoE equipments
- Multiple units, daisy-chain installation support
- No external power cable required for installation
- Compact size, Wall-Mountable design
- Plug-and-Play



PoE Injector / Splitter

IEEE 802.3at Gigabit High Power over Ethernet Injector/Splitter

POE-161 / POE-162S

- Complies with IEEE 802.3at/802.3af Power over Ethernet
- PoE Power up to 30 Watts for PoE port
- Provide DC 56V Power over RJ-45 Ethernet cable
- 10/100/1000Mbps duplex mode support
- Auto-detect of IEEE 802.3at device
- 24V /12V DC Power output by DIP Switch (POE-161S)



Single Port Mid-Span/End-Span Injector/Splitter

POE-152 / POE-152S

- DC 48V power over RJ-45 Ethernet Cable(POE-151/POE-152)
- Splits the 48V DV power over RJ-45 Ethernet cable into different DV output (POE-151S/152S)
- 5V /12V DC Power output by DIP Switch (POE-151S/POE-152S)
- Auto-detect of POE IEEE 802.3af equipment
- TP port supports passive 10/100/1000Mbps (POE-152/ POE-152S)
- Distance up to 100 meters



Single Port Mid-Span/End-Span Injector/Splitter

POE-151 / POE-151S

- DC 48V power over RJ-45 Ethernet Cable (POE-151/POE-152)
- Splits the 48V DV power over RJ-45 Ethernet cable into different DV output (POE-151S/152S)
- 5V /12V DC Power output by DIP Switch (POE-151S/POE-152S)
- Auto-detect of POE IEEE 802.3af equipment
- TP port supports passive 10/100/1000Mbps (POE-152/ POE-152S)
- Distance up to 100 meters



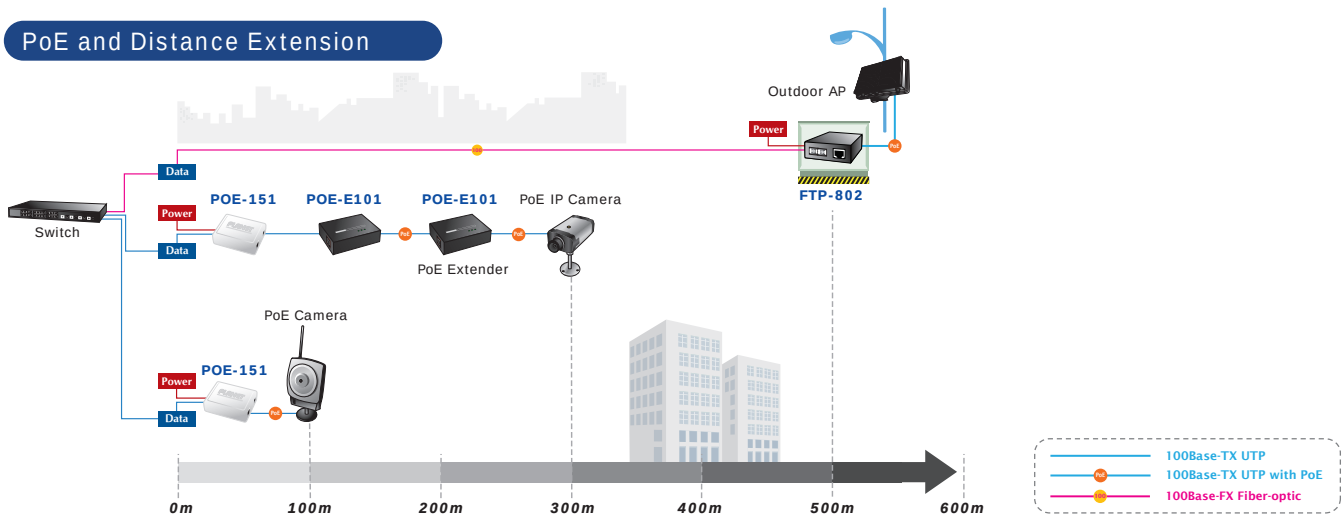
Single Port PoE Injector/Splitter (Pre-Standard)

POE-100 / POE-100S / POE-100SK

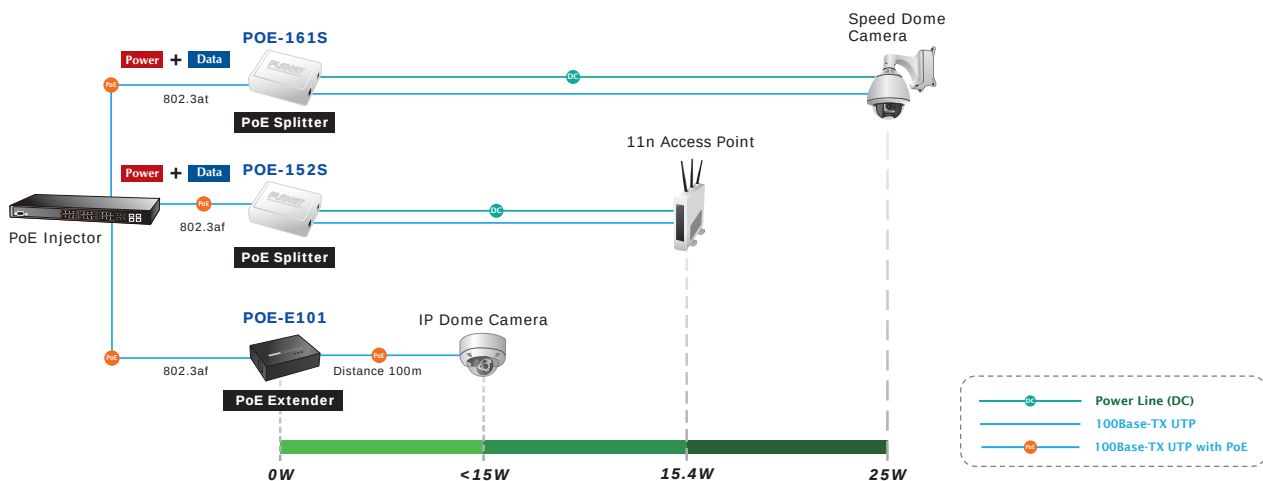
- Low-voltage DC power over existing Category 5 cabling
- Protects devices from possible damages due to power-surges
- Three different output voltage options (5V/2A, 9V/1.2A, 12V/1A) to fit various devices
- Distance up to 100 meters



PoE and Distance Extension



PoE and Supplied Power Consumption



PoE / Fiber Media Converter

100Base-FX to 10/100Base-TX PoE Media Converter FTP-802 / FTP-802S15

- IEEE 802.3af Power over Ethernet / End-Span PSE
- Complies with IEEE 802.3/802.3u 10/100Base-TX and 100Base-FX
- DC 48V power over RJ-45 Ethernet cable, up to 15.4Watts
- LED indicator for easy network diagnose
- Compact size, wall mountable, easy installation
- Remote power feeding up to 100m
- 100Base-FX interface up to 550m / 15km



1000Base-SX to 10/100/1000Base-T PoE Media Converter

GTP-802 Series

- 1000SX to 10/100/1000T
- 802.3at PoE Media Converter
- IEEE 802.3at / 802.3af PoE PSE Compliant
- Supply 30W over UTP Cable
- 1000Base-SX Multi-Mode / LX Single Mode Support
- Link Fault Pass Through (LFP) Supports
- Compact in Size, Wall-Mountable and Easy Installation



Model	POE-151	POE-152	POE-161	FTP-802 FTP-802S15	GTP-802 GTP-802S GTP-805A	POE-E101	POE-E201
Supported Pass-Through bandwidth	10/100Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100Mbps	10/100/1000Mbps	10/100Mbps	10/100/1000Mbps
PoE Power Budget	15.4Watts	15.4Watts	30Watts	15.4Watts	30Watts	13Watts Max.	25Watts Max.

Media Conversion Various Ways of FTTx Deployment



Telecom and ISP FTTx Solution

■ Telecom / ISP

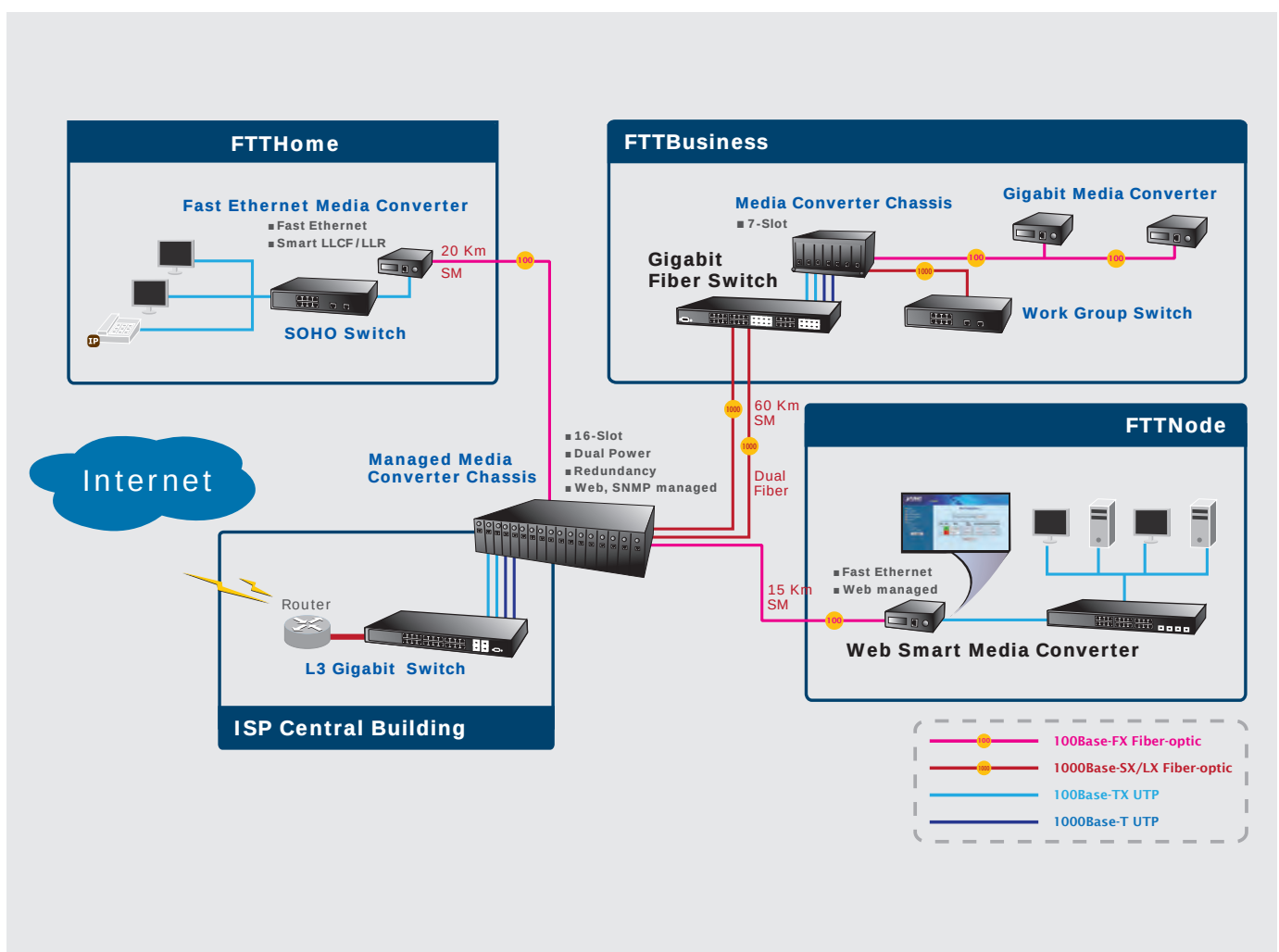
Building a network solution of FTTH (Fiber To the Home) or FTTC (Fiber to the Curb) for ISPs, PLANET Manageable family of chassis and FST, GST converters offer the multiple selections for FTTx deployment. Manageable family is a series of managed Media Conversion Center that provides hot plug and play slots for various types of converters. Through the management interface, the entire status of the converters could be remotely controlled within the chassis from on/off and status/statistics of ports, as well as the advanced features like redundant links.

■ Protect Investment

New networking applications can take the advantage of an Ethernet connection for both power and connectivity. PLANET media converter products bring the power and data from the carrier and needs no extra power supply which saves additional investment of deployment.

■ Extension & Expansion

With the feature-rich chassis, at least 16 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 and available upon request as well.



Managed Media Converter Chassis

16-Slot SNMP Managed Converter Chassis

MC-1610MR / MC-1610MR48

- Configurable through console, Telnet, Web and SNMP
- Provides SNMP status of power, fan and converters with trap functions for any chassis and connectivity events
- TS-1000 version 1 and version 2 OAM function for remote Terminal monitoring and management
- Remote Syslog and local System log
- Managed IP Filter and Denial of Service
- Temperature Threshold Configuration / Alarm
- Supports up to sixteen hot-swappable slide-in modular media converter
- Supports the PLANET smart series Fast Ethernet FST-80x and Gigabit Ethernet GST-70x / GST-80x Media Converter
- Two power slots for redundant power support
- Options of 100~240V AC or -48V DC supplies
- Bay power isolation ensure each bay is electrically isolated from each other
- Up to two fans installation for increased air-flow for system cooling



Front



Rear

Smart Media Converter

10/100/1000T to 1000SX/LX Smart Converter

GST-80x

- DIP switch for smart function setting
- Auto MDI/MDIX on TP port
- LLR / LLCF for fiber connection diagnostic
- Manageable through MC-1600MR / MR48, MC-1610MR / MR48
- Bandwidth Control, VLAN configure by Chassis
- TS-1000 OAM terminal CPE



Model	GST-802	GST-802S20	GST-805A	GST-806A	GST-806B20
10/100TX	SC	SC	SFP	WDM	WDM
Max. Fiber Distance	550m	20km	120km Vary on SFP module *	20km	20km

* Refer to page 17 for the available SFP modules.

10/100TX to 100FX Media Converter

FST-80x / FST-81x

- Auto-negotiation on TP port
- LED indicators for status monitor
- Various optional fiber connector on different model
- Auto MDI / MDI-X on TP port
- Manageable through MC-1600MR / MR48, MC-1610MR / MR48
- TS-1000 OAM terminal CPE (FST-81x)
- 9K Jumbo frame (FST-81x)

Model	FST-801 FST-811	FST-802 FST-812	FST-802S15 FST-812S15	FST-806A20 FST-816A20	FST-806B20 FST-816B20
Fiber Connector	ST	SC	SC	WDM	WDM
Max. Fiber Distance	2km	2km	15km	20km	20km



Media Converter Chassis

7/15-Slot Unmanaged Converter Chassis

MC-700 / MC-1500 / MC-1500R

- Hot-swappable feature on each slot
- LED indicators for system status monitor
- VC-20x / ICS-10x / FT-80x / FT-90x / GT-70X / GT-80X / FT-1105A / FT-1205A compatible
- Redundant power supply support (MC-1500R)
VC-20x / ICS-10x compatible
- 10/19-inch Rack mountable



Model	MC-700	MC-1500	MC-1500R
Interface	10 inch	19 inch	19 inch
Number of Converter Slot	7	15	15
Power Input	100-240V AC	100-240V AC	100-240V AC
Optional Redundant Power	-	-	-48V DC or 100-240V AC

Gigabit Ethernet Media Converter

10/100/1000T to 1000SX/LX Media Converter

GT-80x

- Auto-negotiation, Auto MDI / MDI-X on TP port
- LED indicators for status monitor
- Various optional fiber connector on different model
- 10/19-inch chassis compatible (MC-700 / MC-1500R / MC-1500)
- 9K Jumbo frame
- OAM Terminal (TS-1000 and IEEE 802.3ah) supported
- Hardware based dying gasp event notification
- Link Fault Pass through (LFP) support



10/100/1000T to Dual 1000SX/LX Media Converter

GT-1205A

- Dual 1000Base-X mini-GBIC SFP Slot
- One 10/100/1000Base-T Copper Port
- 3-Port Gigabit Data Switching
- IEEE 802.3x Flow Control
- Wall Mounting or DIN-Rail Support
- Support Fiber Optical up to 120km (Vary on SFP module)



Model	GT-802	GT-802S	GT-805A	GT-806A1/ GT-806A60	GT-806B15/ GT-806B60	GT-1205A
Fiber Connector	SC	SC	SFP	WDM	WDM	SFP
Mode	Multimode	Single mode	Vary on module	Single mode	Single mode	Vary on module
Max. Fiber Distance	550m	10km	~120km Vary on SFP module	15 km/60 km	15 km/60 km	~120km Vary on SFP module

Fast Ethernet Media Converter

10/100TX to 100FX Media Converter

FT-80x

- Auto MDI/MDI-X on TP port
- Various optional fiber connector on different model
- Rear DIP switch for FX duplex mode selection
- Side DIP switch for LFP mode selection
- 10/19-inch chassis compatible (MC-700 / MC-1500R / MC-1500)

Model	FT-801	FT-802	FT-802S15	FT-802S35	FT-806A20	FT-806B20
Fiber Connector	SC	SC	SC	SC	WDM	WDM
Max. Fiber Distance	2km	2km	15km	35km	20km	20km



3-Port Media Converter

FT-1105A / FT-1205A

- Auto MDI/MDI-X on TP port
- Hardware redundant swap less than 10 ms
- 3-Port Switch mode or Redundant mode
- LBR (Loop Back Reply) on / off selection
- 10/19-inch chassis compatible (MC-700 / MC-1500R / MC-1500)

Model	FT-1105A	FT-1205A
Redundant Port	Dual TP	Dual Fiber
Fiber Connector	100FX SFP*	100FX SFP
Max. Fiber Distance	~60km	

* Refer to page 19 for the available 100FX SFP modules.



Manageable Standalone Media Converter

10/100/1000Base-T to 1000Base-SX/LX Managed Media Converter

GT-90x

- IP-Based Web interface for remote management
- SNMP v1, v2c and SNMP Trap for alarm notification of events
- IEEE 802.1Q VLAN / Q-in-Q VLAN and Management VLAN control
- TS-1000 / IEEE 802.3ah OAM for remote terminal monitoring and management
- Remote Loop Back Test Function for link diagnostic
- IEEE 802.1p Tag priority / IP Address priority / IP DSCP QoS
- Bandwidth control and Broadcast / Multicast / Unicast storm control
- Compact size, standalone or work with PLANET MC-7/15R/15 family media chassis

Model	GT-902	GT-902S	GT-905A	GT-906A15 / GT-906A60	GT-906B15 / GT-906B60
Fiber Connector	SC	SC	SFP	WDM	WDM
Max. Fiber Distance	550m	10km	~120km	15 km/60 km	15 km/60 km



10/100Base-TX to 100Base-FX/SFP Managed Media Converter

FT-90x

- IP-Based Web interface for remote management
- SNMP Trap for alarm notification of events
- IEEE 802.1Q VLAN and Management VLAN control
- TS-1000 OAM for remote terminal monitoring and management
- Remote Loop Back Test Function for link diagnostic
- IEEE 802.1p Tag priority Class of Service
- Bandwidth control
- Compact size, standalone or work with PLANET MC-7/15R/15 family media chassis
- Wall mountable design

Model	FT-902	FT-902S15	FT-902S35	FT-905A	FT-906A20	FT-906B20
Fiber Connector	SC	SC	SC	SFP	WDM	WDM
Max. Fiber Distance	2km	15km	35km	~60km	20km	20km



VDSL2 Media Conversion

10/100TX to VDSL2 Media Converter

VC-201A

- ITU-T G.993.2 VDSL2 (Profile 17a)
- Two RJ-11 connectors, one for VDSL2 and the other for POTS connection
- Built-in POTS splitter
- CO/CPE mode selectable via DIP switch
- Compact size, standalone or work with MC-700 / MC-1500R / MC-1500 family Media chassis



10/100TX to Coaxial VDSL2 Converter

VC-202A

- ITU-T G.993.2 VDSL2 (Profile 17a)
- Coaxial to Copper media Converter
 - One BNC port connect with Coaxial cable
 - One 10/100Base-TX copper
 - Long reach Ethernet distance up to 3.0km
- CO/CPE mode selectable via DIP switch
- Compact size, standalone or work with MC-700 / MC-1500R / MC-1500 family Media chassis

10/100TX to VDSL2 Media Converter

VC-231

- ITU-T G.993.2 VDSL2 (Profile 17a/30a)
- One RJ-11 connector for VDSL2 connection
- CO/CPE mode selectable via DIP switch
- Selectable target profile and SNR margin
- Up to 100/100Mbps bandwidth
- Support extensive LED indicators for network diagnostics
- Compact size – Standalone or work with MC-7/15 family Media Chassis



Model	VC-201A	VC-202A	VC-231
VDSL2 Profile	17a	17a	17a / 30a
Long Reach Connector	RJ-11	Coaxial / RG-58	RJ-11
Max. Down/ Up Stream	100/55 Mbps	100/60 Mbps	100/100 Mbps
Max. Phone Wire Distance	1.5km	3.0km	1.4km

Serial over Ethernet Media Conversion

RS-232 / 422 / 485 over IP Ethernet Media Converter

ICS-100 / ICS-102 / ICS-102S15

- RS-232 / RS-422 and RS-485 to Ethernet economy solution
- IP-Based Web interface for remote management
- Selectable serial operate mode
- Virtual COM, TCP Server, TCP Client/UDP Client connections
- Supports PLANET Smart Discovery Utility
- SMTP EMail for alarm notification of events
- Supports standalone (Server mode) or pair-operation (Converter mode)
- LED indicators for easy network diagnose
- Compact size, standalone or work with PLANET MC-7/15R/15 family media chassis
- Wall mountable design



Model	ICS-100	ICS-102	ICS-102S15
Serial Interface	DB9 RS-232 / RS-422 / RS-485		
Fast Ethernet Interface	10/100Base-TX	100Base-FX	
Connector	RJ-45	SC	SC
Mode	-	Multimode	Single mode
Max. Distance	100m	2km	15km



Plastic Optical Fiber

10/100Base-TX to 100Base-FX SMI Fast Ethernet Converter

FT-807 / FT-807L

- Complies with IEEE 802.3u, 10/100Base-TX and 100Base-FX
- RJ-45 TP to POF (Plastic Optic Fiber interface) conversion
- POF Connector:
 - FT-807: SMI - Small Multimedia interface
 - FT-807L: OptoLock plug-less POF interface
- Low-Cost and High-Speed Data Transmission
- Compact Size and Easy Installation
- Plug and Play

Model	FT-807	FT-807L
LAN Interface	10/100Base-TX RJ-45	10/100Base-TX RJ-45
Fiber Interface	SMI	OptoLock
Max. Distance	50m	50m



FT-807



SMI Interface



FT-807L



OptoLock Interface

Video over Fiber Optical Converter

Video over Fiber Media Converter Kit

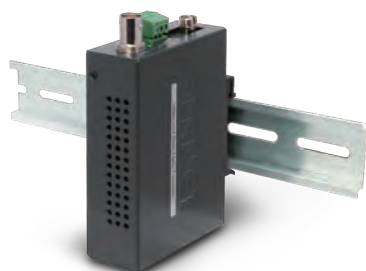
VF-102-KIT

- Video + Data over fiber transmission
- 8 bit Video Signal digital sampling
- PAL, NTSC, SECAM compatible
- 20km max. distance
- Data Type: RS-422 / RS-485
- Standalone or work with PLANET MC-700/1500/1500R converter chassis
- Plug and Play

Model	Fiber	Photo	Mode	Transmission Distance
VF-101-KIT	ST		Multi-mode	2km
VF-102SC-KIT	SC		Multi-mode	2km
VF-102S15-KIT	SC		Single-mode	15km
VF-102-KIT	FC		Single-mode	20km
VF-106-KIT	SC / WDM		Single-mode	20km



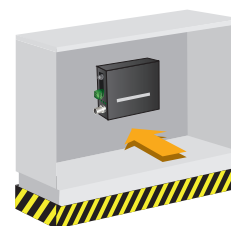
VF-102-KIT



Din Rail Installation
(Optional Kit-Apply to PLANET converter of the same form factor)



Chassis Installation



Wall Mount Installation



300Mbps 802.11n Wireless
Ceiling Mount Range Extender
WNAP-C3220

Stable and smooth
**HD video, online games
and VoIP calls**
at the same time



3G / 802.11n Wireless
Portable Router
WNRT-300G



300Mbps Wireless Broadband Router
WNRT-627

Indoor Wireless LAN Solution

■ Secured & Managed Enterprise-class WLAN

PLANET WNAP-3000PE is an Enterprise PoE access point with advanced management features, superior encryption standard but been cost effective. The built-in IEEE802.11n 3 Tx (Transmit chains) / 3 Rx (Receive chains) MIMO technology enables the data rate up to 300Mbps and is compatible with IEEE 802.11b/g devices. With support for high-level encryption mechanism, the WNAP-3000PE can effectively prevent your information from eavesdropping by unauthorized users. Allowing multiple different SSIDs to be used simultaneously and cooperating with the VLAN support, the WNAP-3000PE helps network administrators define separated wireless subnets for various Class-of-service and security policies.



**Wireless PT
IP Camera**
ICA-HM220W



**802.11n Wireless
USB Adapter**
WNL-U554



**Wireless
Presentation
Gateway**
WPG-200N



**802.11n Wireless
Ceiling Mount
Range Extender**
WNAP-C3220



**802.11n
Enterprise PoE AP**
WNAP-3000PE



**Cube Wireless
IP Camera**
ICA-107W



**Wireless PCI
Express Adapter**
WNL-9501



**High Power
Wireless Compact
USB Adapter**
WNL-U555HA



**150Mbps 802.11n
Wireless 3G Router**
WNRT-617G



**Wireless
Portable Router**
WNRT-300G

■ 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.

Wireless AP Router



150/300Mbps 802.11n Wireless Broadband Router 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
- Supports Wi-Fi Protected Setup (WPS)
- Supports DHCP / Static IP / PPPoE / L2TP / PPTP
- NAT / SPI Dual Firewall + DoS Prevention and Protection
- Easy Smart Setup Wizard



802.11n Wireless Broadband Router WNRT-632

- IEEE 802.11b/g/n wireless standard
- 10/100/1000 LAN/WAN Ports
- Supports Wi-Fi Protected Setup (WPS)
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x) functions for high level of security
- AP/AP Client/WDS PtP/WDS PtMP/Repeater/Universal Repeater/WISP modes supported
- Equipped with 4 LAN ports & 1 WAN port, Auto-MDI / MDI-X supported
- System status monitoring including Active DHCP Client, Security Log and Device/Connection Status
- Remotes Management allows configuration and upgrades from a remote site
- DHCP/PPPoE/PPTP/L2TP/Fixed IP allocation
- MAC/IP filter access control, URL blocking, SPI firewall + DoS prevention protection



802.11n Wireless Portable Router WNRT-300

- Portable and Pocket-sized design
- Complies with 802.11n, 802.11b/g standard
- Hardware switchable operation modes: Router/AP/Client
- Advanced Firewall & Wireless Security
- Multiple wireless modes: AP, WDS, Repeater, Universal Repeater, Client
- One-touch Wi-Fi Protected Setup (WPS)
- Built-in rechargeable Li-ion battery
- Perfect for mobile workgroups-auditors, sales groups, management etc.

Model	WNRT-617	WNRT-627	WNRT-632	WNRT-300
Antenna	Fixed x 1	Fixed x 2	Detachable x 2	Internal
Data Rate	150Mbps	300Mbps	300Mbps	150Mbps
MIMO Technology	1T1R	2T2R	2T2R	1T1R
3G Mobility	-	-	-	-
Gigabit Ethernet	-	-	■	-
WISP Mode	■	-	■	-



Wireless Access Point



802.11n Wireless Access Point

WNAP-1110

- IEEE 802.11n, 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



802.11n Wireless Access Point

WNAP-1120PE

- IEEE 802.11n Compliant with 802.11b/g standard
- Wireless technology capable of up to 300Mbps transmitting data rate
- Supports Wi-Fi Protected Setup (WPS)
- Supports 802.3af PoE
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x)
- Multiple Operating Modes: AP/AP Client/WDS PtP/WDS PtMP



802.11n Wireless Ceiling Mount Access Point / Range Extender

WNAP-C3220

- Sleek Stylish and Ceiling Mountable Design
- IEEE 802.11n, 802.11b/g standard compliant
- Up 300Mbps High Speed Wireless Data Rate
- Multiple Operating Modes: AP/Repeater/WDS PtP/WDS PtMP
- 64/128-bit WEP, WPA/WPA2-PSK & WPA/WPA2-RADIUS
- 10/100/1000Mbps LAN port with 802.3af PoE Compliant
- User-friendly Web and SNMP management interfaces



802.11n Enterprise PoE Access Point

WNAP-3000PE

- IEEE 802.11n, high data transfer rate up to 300Mbps
- 10/100/1000Mbps LAN Port with 802.3af PoE compliant
- Strong network security with WEP, WPA(PSK), 802.1x authentication
- With 3 detachable RP-SMA connectors for expanding of external antenna connection distance
- Five operation modes selectable: AP/AP Client/WDS PtP/WDS PtMP/Repeater
- Multiple SSID, Multiple SSID isolation, 802.1Q VLAN, RADIUS MAC authentication
- SNMP v1, v2c, v3 supported

Model		WNAP-1110	WNAP-1120PE	WNAP-C3220	WNAP-3000PE
Data Rate		150Mbps	300Mbps	300Mbps	300Mbps
MIMO Technology		1T1R	2T2R	2T2R	2T3R
LAN Port		1	1	1(Gigabit)	1(Gigabit)
PoE (IEEE 802.3af)		-	■	■	■
Multiple SSID		■	■	-	■
Built-in RADIUS Server		-	■	-	-
SNMP		■	-	■	■
Operation Mode	AP	■	■	■	■
	AP Client	■	■	-	■
	WDS PtP	■	■	■	■
	WDS PtMP	■	■	■	■
	Repeater	■	■	■	■

3G Wireless AP Router



802.11n Wireless 3G Router

WNRT-617G

- Dual WAN Interfaces: WAN port for cable or wired DSL service & 3G mobile connection
- Complies with 802.11n, 802.11b/g standard
- Advanced security: 64/128/152-bit WEP, WPA-TKIP(PSK), WPA2-AES(PSK), 802.1x
- Web-based GUI for and Wizard setup for easily configuration
- Remote Management allows configuration & upgrades from a remote site
- MAC/IP filter access control, URL blocking; SPI firewall + DoS prevention protection
- Supports UMTS / HSPA / EVDO Mobile Internet Service



802.11n Wireless Portable Router

WNRT-300G

- 3/3.75G Mobile Internet Connection
- Portable and Pocket-sized design for true mobility
- Dual Network Interfaces:
 - WAN port for cable or wired xDSL service
 - USB Port for UMTS / HSPA / EVDO 3G/3.75G Mobile Network
- Compliant with IEEE 802.11b/g/n wireless technology capable of up to 150Mbps data rate
- Multiple hardware switchable operation modes: Router/AP/Client
- Multiple wireless modes: AP, WDS, Repeater, Universal Repeater, Client
- Advanced Firewall & Wireless Security
- Built-in rechargeable Li-ion battery



VPN Wireless AP Router



802.11n Wireless Broadband Router

VRT-402N

- Compliant with IEEE 802.11b/g/n
- Built-in 4 -port switch
- Easy to use Web-based GUI for configuration & management purposes
- Provides Setup Wizard for the user to configure easily in the first time
- Supports 64/128-bit WEP, WPA, WPA2 Encryption
- Supports DHCP server
- Supports MAC / URL Filter
- Supports DDNS, virtual server and DMZ
- PPTP VPN tunnels: 10
- IPSec VPN tunnels: 25



802.11n Wireless Broadband Router

VRT-420N

- Compliant with IEEE 802.11b/g/n
- Dual WAN, Load balance and fail-over Internet Connection
- Easy to use Web-based GUI for configuration & management purposes
- Provides Setup Wizard for the user to configure easily in the first time
- Supports 64/128-bit WEP, WPA, WPA2 Encryption
- Supports DHCP server
- Supports MAC / URL Filter
- Supports DDNS, virtual server & DMZ
- PPTP VPN tunnels: 10
- IPSec VPN tunnels: 25



Model	WNRT-617G	WNRT-300G	VRT-402N	VRT-420N
Antenna	Fixed x 1	Internal	Detachable x1	Detachable x1
Data Rate	150Mbps	150Mbps	150Mbps	150Mbps
MIMO Technology	1T1R	1T1R	1T1R	1T1R
3G Mobility	■	■	-	-
WAN Interface	1x10/100 Mbps RJ-45 1 x USB	1x10/100 Mbps RJ-45 1 x USB	1x10/100 Mbps RJ-45	2x10/100 Mbps RJ-45
WISP Mode	-	■	■	■

802.11a/b/g Wireless Mesh Networking AP

MAP-3120

- Wireless LAN IEEE802.11a/b/g compliant
- Dual wireless interfaces for independent Backhaul link and local clients connection
 - 2 x IEEE802.11a/b/g adapters
- OLSR, optimized link state routing protocol
- Self-healing and Self-Configuration, Plug and Play installation
- Adjustable output power
- Central management software
 - AES backhaul communication
- IEEE 802.1q VLAN, multiple VLAN/SSID supports
- IEEE 802.1x, IEEE802.1i WPA/ WPA2, and VPN pass-through mechanisms
- Supports Wireless Separation, Watchdog mechanism
- Supports SNMP v2c, v3
- IEEE 802.3af Power over Ethernet capable



Wireless USB / PCI Adapter

802.11n Wireless USB Adapter

WNL-U554 / WNL-U554A / WNL-U554M

- 2.4GHz ISM band, unlicensed operation
- Compliant with IEEE 802.11b/g/n
- USB 2.0 attached interface
- Supports Wi-Fi Protected Setup (WPS)
- Supports 64/128-bit WEP, WPA, WPA2
- Supports most popular operating systems including Windows 2000, XP, Vista and Windows 7, MAC OS X



WNL-U554



WNL-U554A



WNL-U554M

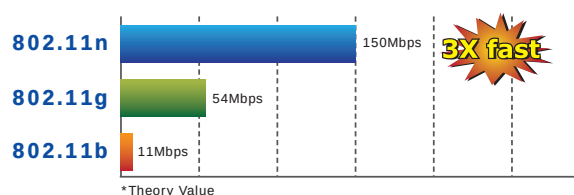
High Power 802.11n Wireless Compact USB Adapter

WNL-U555HA

- 2.4GHz ISM band, unlicensed operation
- Compliant with IEEE 802.11b/g/n
- High Power up to 300mW for the range extending
- Detachable 5dBi High Gain Antenna
- Supports 64/128-bit WEP, WPA, WPA2
- Supports Software AP mode
- USB 2.0 attached interface
- Supports most popular OS including Windows 2000, XP, Vista, Win7, Linux, and MAC OS X



WNL-U555HA



802.11n Wireless PCI Adapter

WNL-9331 / WNL-9501

- 2.4GHz ISM band, unlicensed operation
- Compliant with IEEE 802.11b/g/n
- Supports Wi-Fi Protected Setup (WPS)
- Supports WEP, WPA, WPA2 high-level security mechanisms
- Supports WMM (Wi-Fi Multi-Media) function to meet the multi-media data bandwidth requirement. (the connected AP and the application must support WMM as well)
- QoS function: Control the bandwidth required for different applications
- Supports most popular operating systems including Windows 2000, XP, Vista and Windows 7



WNL-9331



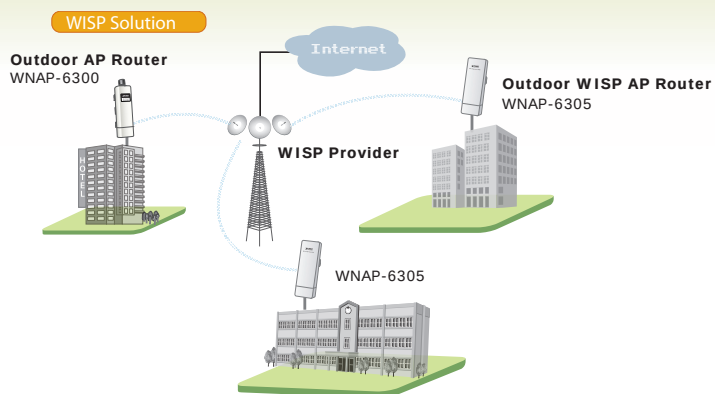
WNL-9501

Model	WNL-U554	WNL-U554A	WNL-U554M	WNL-U555HA	WNL-9501	WNL-9331
Antenna	Built-in	1 x Omni antenna, detachable	Built-in	1 x Omni antenna, detachable	1 x Omni antenna, detachable	1 x Omni antenna, detachable
Data Rate	150Mbps	150Mbps	150Mbps	150Mbps	150Mbps	150Mbps
MIMO Technology	1T1R	1T1R	1T1R	1T1R	1T1R	1T1R
WMM	■	■	■	■	■	■
Software AP mode	■	■	■	■	■	■
Cisco CCX support	■	■	■	■	■	■
Interface	USB 2.0	USB 2.0	USB 2.0	USB 2.0	PCI Express 1.0a	PCI v2.1/2.2

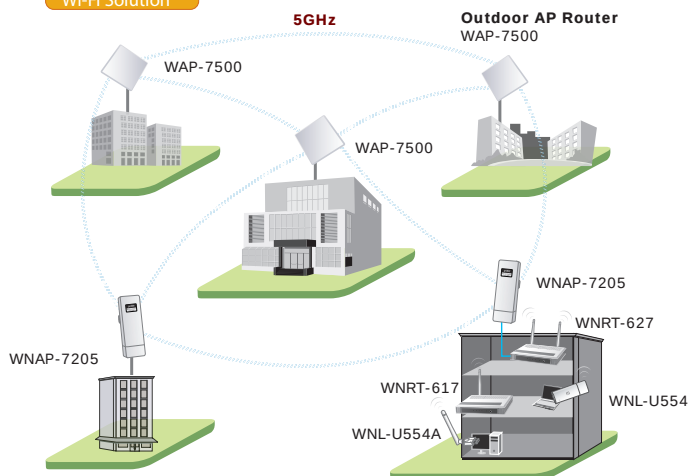
Outdoor Wireless LAN Solution

■ WISP Solution

Compared with traditional ISP provider that offers wired internet service, take a turn to instead of WISP solution, provides more elasticity, more effective and low cost wireless internet service, no limitation of place, environment, wherever in small residence, middle campus or LAN, WISP is indeed a perfect wireless network solution.



■ Wi-Fi Solution

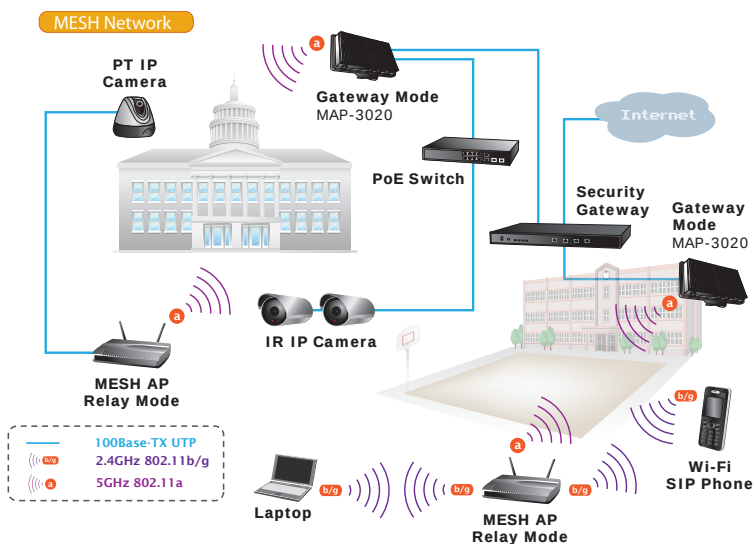


■ Outdoor Wi-Fi LAN Solution

Provides a middle / small business or SOHO wireless LAN extremely network data transmission solution, wherever in campus, residence, business building, connect a wireless point to point/ multiple point to multiple point bridge, general data transmission or media transmission like surveillance monitor between buildings, also suitable in widely range distance connection, more convenient application solution.

■ Mesh Network

In mesh wireless network, user can easily, freely mobility shift anywhere, whatever using radio communication device, surfing Internet, transmitting data or media audio/voice. No limitation of the amount of users, feature in network stream and monitor control in any Mesh AP, users can easily enjoy wireless network, anytime, any where.



5GHz 11a/n Outdoor WLAN

N
150Mbps

802.11a/n Wireless LAN Outdoor CPE AP/Router

WNAP-7200

- IEEE 802.11a/n Dual Standards compatible
- Built-in 18dBi patch Antenna
- Multiple Operating Modes: Bridge, Gateway and WISP
- WEP, WPA, WPA2, 802.1x Authentication
- Firewall supports Content/MAC/IP/Port Filtering
- Power over Ethernet design
- High transmit output power
- Web-based configuration
- IP-65 casing protection against rigorous weather conditions



N
150Mbps

802.11a/n Wireless LAN Outdoor AP

WNAP-7205

- IEEE 802.11a/n Dual Standards compatible
- Built-in 16dBi patch Antenna and optional RP-SMA Type connector purpose
- Multiple Operating Modes: Gateway, Bridge, WISP
- Multiple Wireless Access Modes: AP, Client, WDS, Repeater, Universal Repeater
- WEP, WPA, WPA2, 802.1x Authentication
- Firewall supports MAC/ IP/ Port/ URL Filtering
- Power over Ethernet design
- Reset to default button on PoE injector
- High transmit output power
- IP-55 protection against rigorous weather conditions



N
300Mbps

802.11a/n Wireless LAN Outdoor AP

WNAP-7300

- IEEE 802.11a/n standards compliant
- 5GHz wireless networks deliver widely and better connections with less interference
- Multiple Antenna choices: Built-in 16dBi dual-polarity Antenna, and two External Antenna Connectors (Reverse SMA connector)
- IP-55 case protection against rigorous weather conditions
- High Transmit Output Power up to 400mW with multiple adjustable transmit power control
- Power over Ethernet design (with proprietary injector)
- Multiple Wireless Access Modes: AP, Client, Client CPE (WISP), WDS, Repeater



802.11a Wireless LAN Outdoor Bridge AP/Extender

WAP-7500

- IP67 protection against rigorous weather conditions
- 802.11a/Super Mode with fast frames, bursting compression
- Dual high power RF as long distance extension over 5G channels
- Built-in 23dBi patch Antenna and optional N-type connector for purpose
- Adjustable transmit power control
- Multiple Wireless Access Modes: AP, Client, WDS, Relay
- WEP, WPA, WPA2, 802.1x Authentication
- Distance meter for long distance performance optimizing



Model	WNAP-7205	WNAP-7200	WNAP-7300	WAP-7500
Frequency	5GHz	5GHz	5GHz	5GHz
Standard	IEEE 802.11a/n	IEEE 802.11a/n		IEEE 802.11a / Super A
MIMO Technology	1T1R	1T1R	2T2R	-
Antenna	Built-in 16dBi [selectable]: RP-SMA	Built-in 18dBi	Built-in 16dBi dual polarity [selectable]: RP-SMA	RF1: Built-in 23dBi RF2: N-type RP Female
Antenna H-plane	60°	25°	36°/15°	10°
Antenna V-plane	30°	25°	38°/17°	10°
IP code	IP-55	IP-65	IP-55	IP-67
Operating Temperature	-20°C~70°C	0°C~55°C	-20°C~70°C	-30°C~70°C
Max. TX Power	25dbm	23dbm	26dbm	24dbm
Wireless Mode	AP	■	■	■
	AP Client	■	■	■
	AP + WDS	■	■	■
	Bridge	■ (4)	■ (4)	■ (8)
	WISP	■	■	-
LAN	1 x RJ-45 LAN 1 x RJ-45 WAN	1 x RJ-45	2 x RJ-45 LAN	1 x RJ-45

2.4GHz 11b/g/n Outdoor WLAN

802.11b/g/n Wireless LAN Outdoor AP

WNAP-6305

- IP-55 protection against rigorous weather conditions
- 802.11n technology for up to 150Mbps wireless connection
- Built-in 12dBi patch Antenna & optional RP-SMA Type connector purpose
- Multiple Operating Modes: Gateway, Bridge, WISP
- Multiple Wireless Access Modes: AP, Client, WDS, Repeater
- Supports WEP, WPA, WPA2, 802.1x Authentication
- Reset to default button on PoE injector



802.11b/g/n Wireless LAN Outdoor AP/CPE

WNAP-6300

- IP55 protection for most common outdoor weather conditions
- 802.11n technology for up to 150Mbps wireless connection
- Built-in 8dBi patch Antenna and optional N-type connector for purpose
- Adjustable transmit power control
- Multiple Wireless Access Modes: AP, Client, Client CPE (WISP), WDS, Repeater
- Supports WEP, WPA, WPA2, 802.1x Authentication



802.11b/g/n Wireless LAN Outdoor AP

WNAP-6306

- IP-65 protection against rigorous weather conditions
- 802.11n technology for up to 150Mbps wireless connection
- N-type Antenna connector for various installation
- Multiple Wireless Access Modes: AP, Client, WDS, Repeater
- Supports WEP, WPA, WPA2
- Reset to default button on PoE injector



Model		WNAP-6306	WNAP-6305	WNAP-6300
Frequency		2.4GHz	2.4GHz	2.4GHz
Standard		IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n
MIMO Technology		1T1R	1T1R	1T1R
Antenna		N-type Connector	12dBi [selectable]: RP-SMA	Built-in 8dBi [selectable]: N-type RP plug male
Antenna H-plane		-	60°	113°
Antenna V-plane		-	30°	39°
IP code		IP-65	IP-55	IP-55
Operating Temperature		-20°C~70°C	-20°C~70°C	-20°C~70°C
Max. TX Power		23dbm	27dbm	26dbm
Wireless Mode	AP	■	■	■
	AP Client	■	■	■
	AP + WDS	■	■	■
	Bridge	■	■ (4)	■ (4)
	WISP	■ *	■	■
LAN		1 x RJ-45	1 x RJ-45 LAN 1 x RJ-45 WAN	1 x RJ-45

* Remark: *1. Future firmware supports



Hotspot Gateway

802.11n Hotspot Subscriber Gateway

WSG-500

- Plug and Play Internet Access
- 300Mbps 802.11n MIMO Technology
- IEEE 802.3af PoE Powered Device
- Local, RADIUS & On-Demand Authentication
- External On-Demand Ticket Printer support
- Payment Gateway with Flexible Billing System
- Walled Garden, User Define login page



WSG-ACG5-KIT



WSG-500

Wireless Presentation Gateway

Wireless Presentation Gateway

WPG-200N

- Up to 30FPS Network Screen Projection Speed
- VGA/720p HDMI Output
- 4-to-1 Split Screen Projection
- 802.11n Wi-Fi AP and AP-client Mode
- Web Browser Management
- Audio/Video Streaming
- Plug & Show
- Windows XP/Vista/7, Mac OS X Support
- Multiple Users Access
- Compact Size Convenient for Installation and Placement



Dual Video Output Interfaces



4-to-1 Split Screen Projection

Obtain The WPG Utility from Web UI & Start Presentation



Insert The WPG PnS Token and Start Presentation



802.11n Pocket Presentation Gateway

WPG-130N

- Pocket Size, Easy Placement
- IEEE 802.11n AP-client Mode
- Plug & Show
- Supports PoVGA (Power over VGA)
- 4-to-1 Split Screen Projection
- Web Browser Management
- Windows XP / Vista / 7, Mac OS X support
- Multiple Users Access





Industrial Wireless Access Point

802.11n Industrial AP with 4-Port 10/100Mbps PD Switch

IAP-2000PE/IAP-2001PE

- **IAP-2000PE:** 4 x 10/100Base-TX Ports with 1-port PoE (PD, Powered Device)
- **IAP-2001PE:** 4 x 10/100Base-TX Ports with 1-port PoE (PD, Powered Device) + 1 x 100FX (SFP Slot)
- IEEE 802.3af Power over Ethernet Standard
- Complies with IEEE 802.11n Wireless LAN Speed Up to 300Mbps
- Supports 64/128-bit WEP, WPA/WPA2-RADIUS, and WPA-PSK/WPA2-PSK, 802.1x
- Supports Wi-Fi Protected Setup (WPS)
- 2 x 5dBi Detachable Omni-directional Antenna
- Supports WISP Mode, Port-based/IEEE 802.11Q VLAN, SNMP Management
- -10 to 60 Degree C Operating Temperature
- IP-30 Metal Case/DIN Rail and Wall-mount Design

802.11n Industrial AP with 4-Port 10/100Mbps PSE Switch

IAP-2000PS

- 4 x 10/100Base-TX Ports with 4-port PoE (PSE, Power Sourcing Equipment)
- IEEE 802.3af Power over Ethernet Standard
- Complies with IEEE 802.11n Wireless LAN Speed Up to 300Mbps
- Supports 64/128-bit WEP, WPA/WPA2-RADIUS, and WPA-PSK/WPA2-PSK, 802.1x
- Supports Wi-Fi Protected Setup (WPS)
- 2 x 5dBi Detachable Omni-directional Antenna
- Supports WISP Mode, Port-based / IEEE 802.11Q VLAN, SNMP Management
- -10 to 60 Degree C Operating Temperature
- IP-30 Metal Case / DIN Rail & Wall-mount Design

Manufactory



IAP-2001PE



IAP-2000PS

Model	IAP-2000PE	IAP-2001PE	IAP-2000PS
Standard	802.11b/g/n	802.11b/g/n	802.11b/g/n
Data Rate	300Mbps	300Mbps	300Mbps
MIMO Technology	2T2R	2T2R	2T2R
10/100TX	4	4	4
100FX	-	1 x SFP	-
PoE	1 x PoE PD	1 x PoE PD	4 x PoE PSE
Power Input	Dual 12~48V DC 24V AC	Dual 12~48V DC 24V AC	Dual 24V/48V DC

Wireless LAN Accessories

2.4G / 5GHz Antennas

ANT-OM5

5dBi Desktop Antenna



ANT-FP18

18dBi Flat-Panel Directional Antenna



ANT-OM10A

5GHz 10dBi Omni-directional Antenna



ANT-OM8

8dBi Omni Directional Antenna



ANT-YG13

13dBi Yagi Directional Antenna



ANT-SE17A

5GHz 17dBi Sector Antenna



ANT-OM15

15dBi Omni Directional Antenna



ANT-YG20

20dBi Yagi Directional Antenna



ANT-FP18A

5GHz 18dBi Flat Panel Antenna



ANT-FP9

2.4GHz 9dBi Flat-Panel Directional Antenna



ANT-GR21

2.4GHz 21dBi Grid Directional Antenna



ANT-FP23A

5GHz 23dBi Flat Panel Antenna



ANT-SE18

12-18dBi Adjustable Sector Antenna



ANT-OM5A

2.4/5GHz 3/5dBi Dual-Band Omni-directional Antenna



Accessories

WBT-1000 / WBT-1000A

2.4/5GHz 1000mW WLAN Outdoor Booster

WL-LTN / WL-LTNA

2.4 / 5GHz Lightning Arrester
(N male to N female) Pin

WL-MMC

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



WBT-1000/1000A

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-LTN / WL-LTNA

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

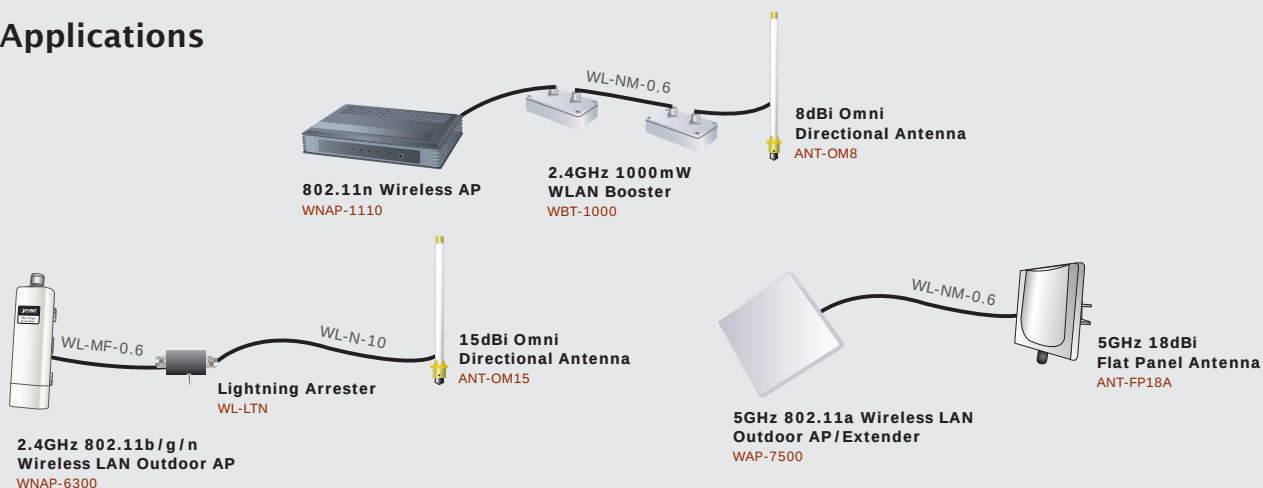
WL-SMA-6

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



WL-NM-0.6

Applications



Real-Time Worldwide Communication

3 Way
Conference



Earphone



Speed Dial



HandFree



Professional PoE IP Phone

► **VIP-361PE**

London

Branch

Internet Telephony
PBX System



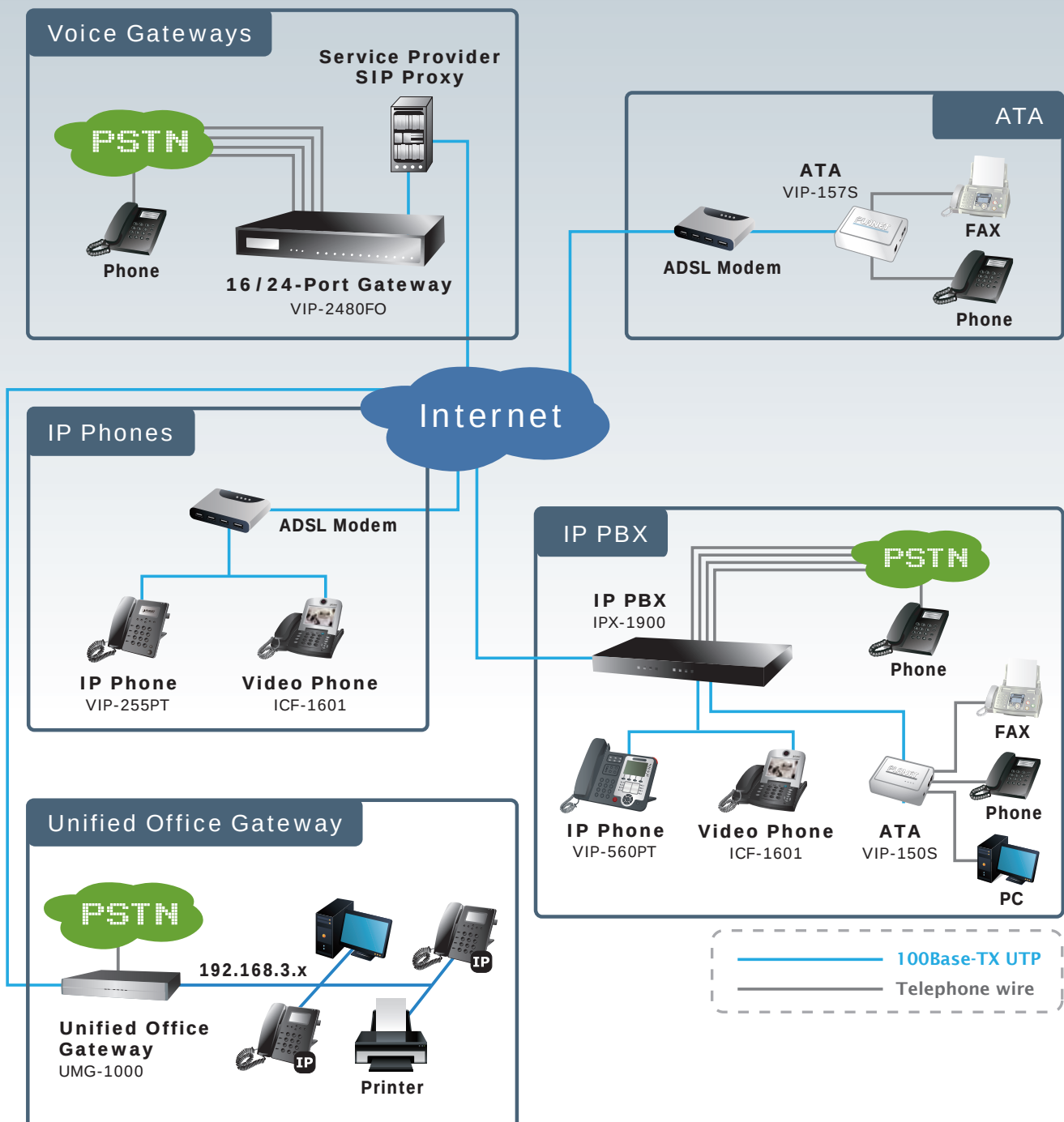
New York



PLANET IP Telephony Solution

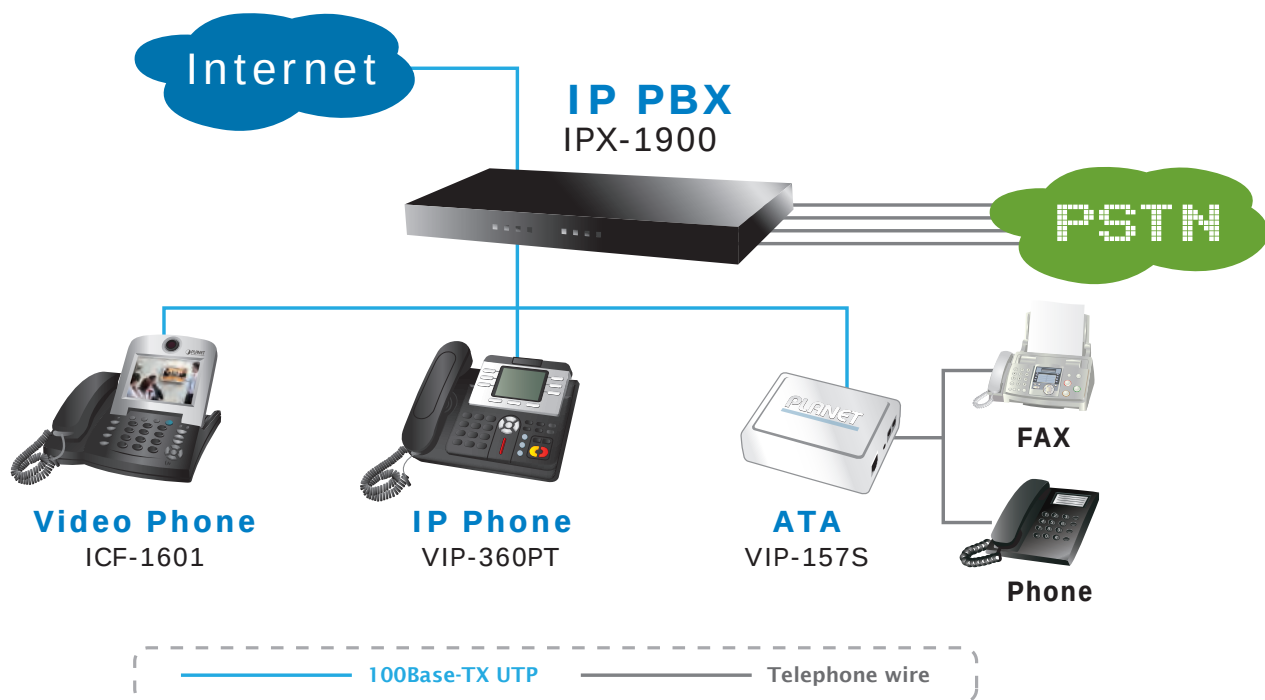
With the cost-effective and user-friendly benefits, the PLANET IP Telephony system stands an unbeatable position in telecommunication field. Cost saving standard-based equipments and converging voice and data networks. Enterprises are able to gain productive communication through such well-managed systems. Planet offers the total solutions of IP Telephony System including IP PBX, Voice

Gateway, Analog Telephone Adapters (ATA) and IP Phones with feature-rich functionalities such as Three-way conference, Caller ID display, Call Hold, Call Transfer, Call Forward, and Call Waiting. With the advanced features, the PLANET IP Telephony System is your best choice to build up the most reliable Voice over IP networks.



IP PBX System

The majority of companies today have traditional PBX, but selecting a right IP PBX not only proves an effective way to reveal the benefits of IP PBX solution but also protects the current investment. Whenever you are ready to grow your business, the PLANET IP PBX is the best solution to ultimately lower costs and improve productivity.



SIP IP PBX

Internet Telephony PBX System

IPX-1900

- Asterisk Compatible IP PBX System
- Automated Attendant (AA) / Interactive Voice Responses (IVR)
- Voicemail (VM) / Call Detailed Record (CDR)
- SIP Trunk / Gateway Trunk / FXO Trunk Management
- Call Pickup / Call Park / Caller ID / T.38 VoIP
- Music on Hold / Music on Transfer / Three-Way Conference
- Call Transfer / Call Hold / Call Waiting
- Packet / URL Filter Virtual Server / DMZ / Port Trigger



Accessories

IPX-1900

IPX-19FO	2-Port FXO module
IPX-19SL	2-Port Life-line module (1 FXO+ 1 FXS)



SIP IP PBX

100-User IP PBX with Wi-Fi

IPX-300W

- Asterisk Compatible IP PBX System
- SIP 2.0 and IEEE 802.11b/g
- 100 registration / 30 concurrent calls
- Built-in SIP proxy / Router / QoS functions
- Auto-Attendant (AA) / Interactive Voice Response (IVR)
- Call Detail Record (CDR) / Voicemail (VM)
- T.38 Fax ready and G.711 pass-through



4-Port ISDN 30-User IP PBX

IPX-1800N

- 30 registration / 10 concurrent calls
- 30 Voice-mail accounts / 5 SIP trunks
- Up to 9 meet-me conferences
- Auto-Attendant (AA) / Interactive Voice Response (IVR)
- Call Detail Record (CDR) / Voicemail (VM)
- Group-based call pick-up



Model	IPX-300W	IPX-1800N	IPX-1900
Registration	100	30	300
Concurrent	30	10	60
SIP Trunk	10	5	30
Voice Interface	-	4 ISDN Line	4 PSTN Line
Wireless	802.11b/g	-	-

H.323 IP PBX

H.323 IP PBX

IPX-1000

- Max. 8 extensions (4 analog extensions + 4 IP extensions) with 2 CO lines (IPX-1000)
- Call transfer/Call forward/Call conferencing/Voicemail-to-Mail
- Off-net calling capability, call restriction, call access control
- G.731.1/G.729a voice codec & CNG/Echo Cancellation
- VPN tunneling, policy based Firewall protection
- Built-in Qos/bandwidth control mechanism



Multipoint Control Unit

Multipoint Control Unit (up to 4/9 screen)

MCU-1400 / MCU-1900

- Multi-Codec for H.263 / H.263p / MPEG-4 compression
- Supports Video / Voice Conferencing service
- Supports IP-Surveillance Hosting service
- Call Detailed Record (CDR)
- Built-in SIP Proxy Server Following RFC-3261
- Recording MCU room's Video / Voice to File
- Video MCU screen format : 1:1, 1:4, 1:6, 1:7, 1:8, 1:9



Voice Gateways

Voice over IP Gateway has become an effective a flexible solution applied for the various office data and voice connection. Controlling of gateway can be done through the application of various protocols such as SIP

and H.323. Usually a voice gateway interface connects to a traditional telephone system's PBX unit.

Dual Protocol Voice Gateway / ISDN Trunk Gateway

2/4-Port Voice Gateway

VIP-281 / VIP-480 Series

- H.323 / SIP dual-mode
- VoIP quality with Smart QoS
- Outbound / STUN for NAT transversal
- Universal dial plan / Auto-Provisioning
- T.30 / T.38 FoIP and G.711 pass-through
- NAT Router / DHCP Server / Virtual Server
- Real time voice channels status display
- Up to 2/4 VoIP calls simultaneously



8-Port Voice Gateway

VIP-880 Series

- H.323 / SIP dual-mode
- VoIP quality with Smart QoS
- Outbound / STUN for NAT transversal
- Universal dial plan / Auto-Provisioning
- T.30 / T.38 FoIP and G.711 pass-through
- NAT Router / DHCP Server / Virtual Server
- Real time voice channels status display
- Up to 8 VoIP calls simultaneously



16/24-Port Voice Gateway

VIP-1680 / VIP-2480 Series

- H.323 / SIP dual-mode
- VoIP quality with Smart QoS
- Outbound / STUN for NAT transversal
- Universal dial plan / Auto-Provisioning
- T.30 / T.38 FoIP and G.711 pass-through
- NAT Router / DHCP Server / Virtual Server
- Real time voice channels status display
- Up to 16/24 VoIP calls simultaneously



1/4-Port T1/E1 Trunk Gateway

VIP-2100 / VIP-2400 Series

- H.323 to SIP call conversion
- P2P / H.323 GK / SIP proxy calls
- T.38 FoIP relay
- Built-in IVR & call-flow controller for PSTN / VoIP calls
- Intelligent PSTN call routing and in-trunk hunting
- Web-based configuration



GSM Voice Gateway

2-Port H.323 / SIP VoIP GSM Gateway

VIP-281GS

- H.323 / SIP dual-mode
- GSM 850 / 900 / 1800 /1900 MHz
- SMS Server for SMS sending and receiving
- GSM PIN code protection
- T.38 FoIP and G.711 pass-through
- NAT Router / DHCP Server / QoS
- Real time voice channels status display



Model	VIP-281GS	VIP-281	VIP-480	VIP-880	VIP-1680	VIP-2480
Voice Line	2	2	4	8	16	24
FXO	-	1 / 2 / 0	2 / 4 / 0	4 / 8 / 0	8 / 16 / 0	16 / 24 / 0
FXS	1	1 / 0 / 2	2 / 0 / 4	4 / 0 / 8	8 / 0 / 16	12 / 0 / 24
GSM / PSTN	■	-	-	-	-	-
T.30 / T.38	T.38	T.30 / T.38	T.30 / T.38	T.30 / T.38	T.30 / T.38	T.30 / T.38

Remark: Besides 2-Port model, different combination of FXO or FXS interfaces available upon request.

Analog Telephony Adapter (ATA)

Cost-effective, easy-to-install and simple-to-use, the PLANET ATA turns your traditional telephones into IP networks. To protect your legacy telephones and business equipment investments, the ATA provides

users both traditional and enhanced telephony communications services via the existing broadband connection to the Internet or corporate network.

SIP Analog Telephony Adapter

ATA-150 / ATA-150S

- SIP 2.0 (RFC3261) compliant
- Up to 2 concurrent VoIP calls (ATA-150S)
- T.38 FAX Relay, G.711 Fax pass-through
- QoS / TOS (IP Precedence) / DiffServ
- 3-Way Conference / Caller ID Generation
- SNMP v1/v2, TR-069 and Auto Provision



2 Ethernet Port SIP Analog Telephone Adapter

VIP-156 / VIP-156PE / VIP-157 / VIP-157S

- SIP 2.0 (RFC3261) compliant
- Integrated 802.3af PoE (VIP-156PE)
- Up to 2 concurrent VoIP calls (VIP-157S)
- PSTN /VoIP call selection (VIP-157)
- PSTN Life-Line (VIP-157)
- On-net/off-net call capability (VIP-157)
- T.38 FoIP / NAT Router / QoS
- Auto-provisioning / upgrade firmware



VoIP Wireless Router

802.11n Wireless VoIP Router

VIP-281SW / FRT-420SN

- 300Mbps 802.11n with WPS
- 100 Base-FX Fiber Interface (FRT-420SN)
- VPN Pass-Through
- SIP 2.0 / T.38 FoIP / STUN
- 3-Way Conference / Caller ID
- Auto Provision / TR-069 / SNMP
- WAN Port 100Base-FX (FRT-420N)



VIP-281SW

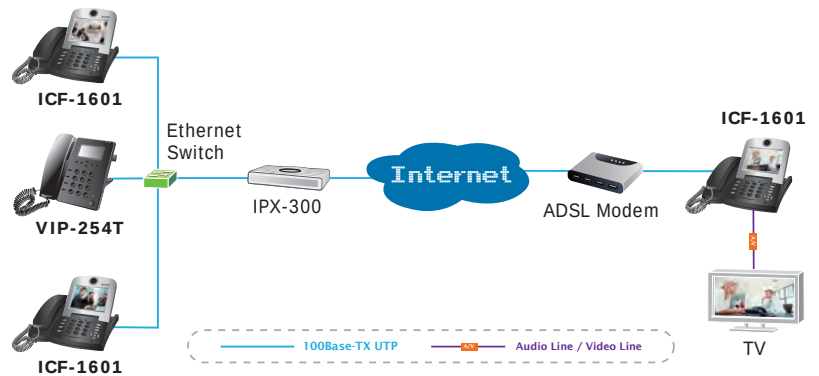


FRT-420SN

Model	ATA-150/ATA-150S	VIP-156/VIP-156PE	VIP-157/VIP-157S	VIP-281SW	FRT-420SN
Voice Line	1 FXS / 2 FXS	1 FXS	1 FXS 1 FXO 2 FXS	2 FXS	2 FXS
Ethernet Ports	1	2	2	5 (1 x WAN, 4 x LAN)	5 (1 x FX WAN, 4 x LAN)
PSTN (Life-Line)	-	-	-	-	-
TR-069	■	-	-	■	■
802.3af PoE	-	VIP-156PE	-	-	-
NAT Router	-	■	■	■	■

IP Phones

Meeting the next-generation IP Communication demands, PLANET provides feature-rich, ease-of-use, and toll-quality IP Phones. The PLANET IP phones including wired/wireless phones, video phone and DECT handset are ideal solution for office/home users as well as installation for Internet Telephony Service Providers (ITSP).



SIP IP Phones

Desktop SIP IP Phone

VIP-251T

- SIP 2.0 (RFC3261) compliant
- G.711A, G.711U and G.729 voice codec
- STUN, Outbound Proxy
- Up to 2 Proxy server registrations
- 3-Way Conference / Caller ID
- QoS / NAT / DHCP Server
- Auto-Provisioning / TR-069



SIP IP Phone with PSTN support

VIP-254NT

- SIP 2.0 (RFC3261) compliant
- Selective PSTN / VoIP voice communications
- PSTN / VoIP incoming call alerting
- STUN, Outbound Proxy
- Up to 5 Proxy server registrations
- 3-Way Conference / Caller ID
- Auto-Provisioning / TR-069



SIP IP Phone with PoE

VIP-254T / VIP-254PT

- SIP 2.0 (RFC3261) compliant
- Support STUN, Outbound Proxy
- Up to 3 Proxy server registrations
- 3-way conference, Caller ID support
- Built-in phone book / Speed Dial
- Call Hold / Forward / Transfer / Waiting
- VAD / CNG / Echo Cancellation / DTMF detection
- Incoming / Outgoing / Miss Call record
- QoS / NAT / DHCP Server



Multi-Language PoE IP Phone

VIP-255PT

- Compliant with SIP 2.0
- IEEE 802.3af PoE standard compliance
- Multi-Language Function
- SMS (Short Message Service) Function
- 3-Way Conference / Caller ID
- Call Hold / Waiting / Transfer / Forward
- Auto-Provisioning / Firmware upgrade
- VAD / CNG / AEC / NLP / AGC
- Standard encryption and authentication
- Incoming / Outgoing / Miss Call record



802.3af PoE SIP IP Phone

VIP-256PT

- IEEE 802.3af Power over Ethernet (PoE) compliant
- Full-Duplex Speakerphone
- 128x64 Graphic LCD with white backlight
- Supports BLF (Busy Lamp Field) / Black list / SMS Functions
- Efficient deployment of IP PBX solution
- Reversible base stand and wall mount installation options
- TR069 / Auto Provisioning: TFTP, HTTP and HTTPS



Enterprise PoE IP Phone

VIP-360PT

- SIP 2.0 (RFC3261) & IAX2 compliant
- IEEE 802.3af Power over Ethernet compliant
- Supports up to 3 service domains
- 802.1p (QoS) / 802.1q (VLAN)
- Full duplex speakerphone (mic and speaker)
- Pixel-based monochrome LCD with backlight
- Reversible base stand / wall mount
- BLF / BLA / Three-Way Conference / Caller ID / Speed Dial
- Call Hold / Mute / Forward / Transfer / Waiting



Model	VIP-251T	VIP-254T/PT/NT	VIP-255PT	VIP-256PT	VIP-360PT
LCD Display	2 text lines	2 text lines	4 text lines	128 x 64 Graphic	6 text lines
Voice Line	1	1	1	2	2
802.3af PoE	-	- / ■ / - (PT model)	■	■	■
3 way conference	■	■	■	■	■
BLF / BLA	-	-	-	BLF (only)	■
PSTN	-	- / - / ■ (NT model)	-	-	-

SIP IP Phones

Full Function PoE IP Phone with expansion model

VIP-361PE/ VIP-36EXT

- IEEE 802.3af Power over Ethernet compliant
- Up to 5 service domains/20 function keys
- 6 expansion modules(240 programmable extensions)
- Supports BLF (Busy Lamp Field) / Black list
- Supports Customization Ring Tone / Daylight Saving Time
- TR069 / Auto Provisioning: TFTP, HTTP and HTTPS
- SMS (100 records), Call History (100 records), Phone book (100 records), Speed Dial (20 records)



BLF

802.11n Wireless Desktop IP Phone

VIP-362WT

- IEEE 802.11 b/g/n compliant wireless Desktop IP Phone
- 128x64 Graphic LCD with white backlight
- Efficient deployment of IP PBX solution
- Cost-effective, field proven compatibility and stability
- DNS / DNS SRV (RFC1706 and RFC 2782)
- Up to 4 lines service domains
- CID and CWCID
- Local and Remote Syslog (RFC 3164)
- Auto Provisioning: TFTP, HTTP and HTTPS
- SNMPv2, TR069



N
150Mbps

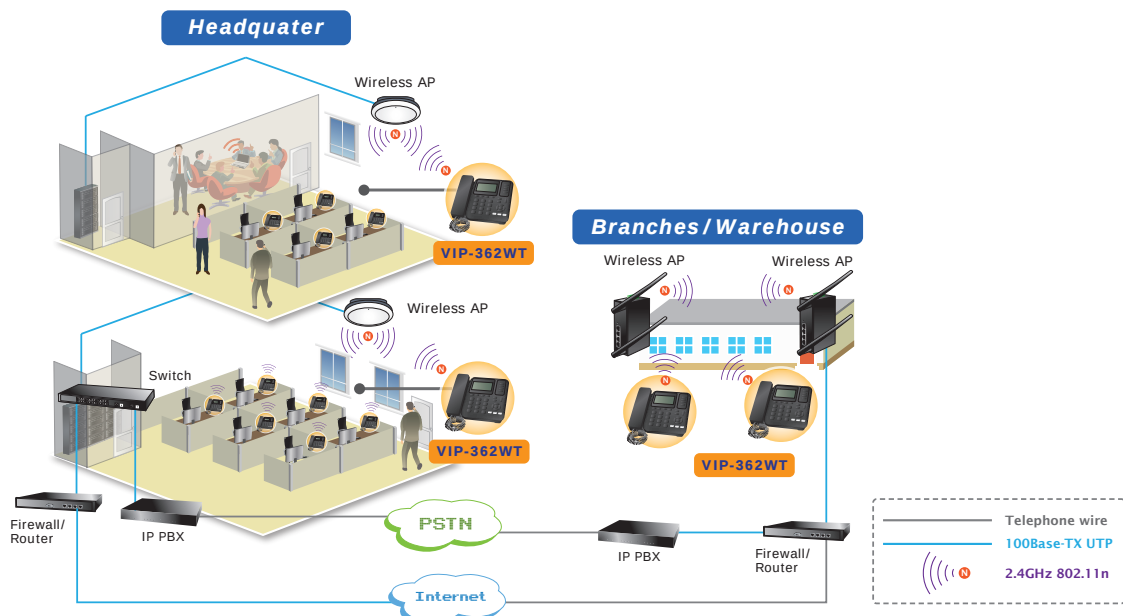
Enterprise PoE IP Phone

VIP-560PT

- SIP 2.0 (RFC3261) compliant
- IEEE 802.3af (Power over Ethernet) compliant
- Supports up to 4 service domains
- Full duplex speakerphone (both Mic and Speaker)
- Large Pixel-based monochrome LCD (240 x 160 pixels) with backlight
- Efficient installation of IP PBX solution
- BLF / BLA/ Three-Way Conference / Caller ID / Speed Dial
- Call Hold / Mute / Forward / Transfer / Waiting



Model	VIP-361PE	VIP-362WT	VIP-560PT
LCD Display	128 x 64 Graphic	128 x 64 Graphic	6 text lines
Voice Line	5	4	4
802.3af PoE	■	-	■
3 way conference	■	■	■
BLF / BLA	BLF (only)	-	■
PSTN	-	-	-



SIP Video Phones

Internet Video Conferencing Phone

ICF-1601

- SIP version 2 (RFC 3261) compliant
- 5" Color TFT-LCD display with video/audio output function
- Supports frame rate up to 30 fps
- User-friendly GUI Management
- Personalized phone ring tone
- Built-in Digital photo frame



Touch Screen Internet Multimedia Phone

ICF-1700

- 7" Color TFT LCD Display with Video/ Audio Output Function
- Touch Screen with 800x480 pixels
- 2.0 M pixel CMOS camera
- Based on Android OS 2.1
- SIP 2.0 and 802.3af PoE compliant
- Multi-language Function



Model	VIP-462DG	ICF-1601	ICF-1700
LCD Display	0.7" LCD (DECT VoIP Phone)	5" LCD	7" LCD
Voice Line	2	1	4
3 way conference	■	■	■
Wireless	■	-	-
PSTN	■	-	-
DECT	■	-	-

DECT VoIP Phone / DECT VoIP Router

Wi-Fi DECT VoIP Router

VIP-462DG

- SIP 2.0 & IEEE 802.11b/g
- DECT & GAP Compatible
- Up to 5 DECT Handset registering
- PSTN Life-Line
- NAT Router / DHCP Server / QoS
- Web-based / LCD mean configuration



Skype Devices

Personal VoIP Gateway

SKG-300

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



Fisheye

360 Degree Panoramic High Definition Surveillance



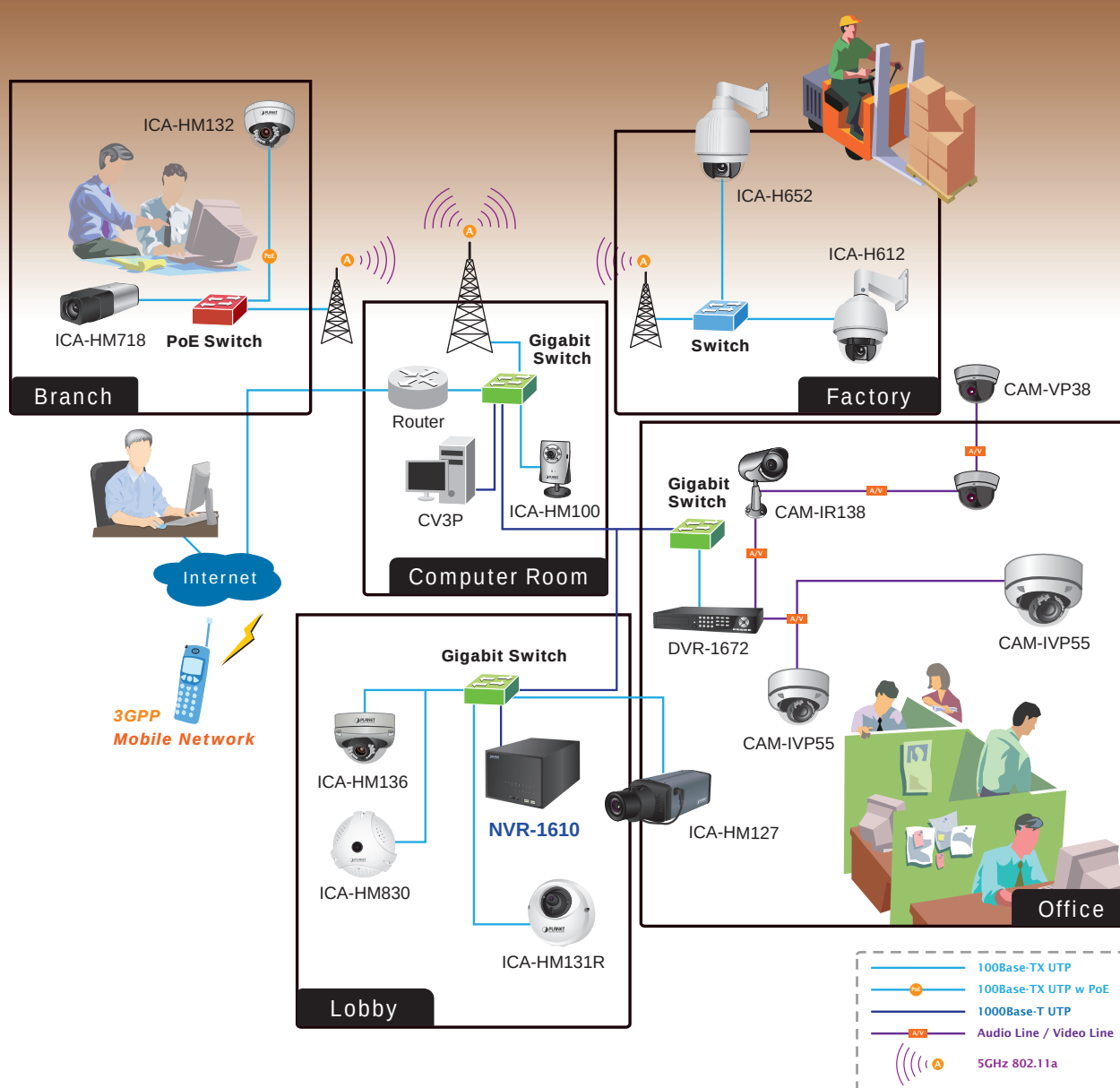
- ▶ 2 Mega-Pixel with H.264 / M-JPEG
- ▶ 9 Different 360°/180°/90° Video Mode
- ▶ IEEE 802.11n Wireless
- ▶ IEEE 802.3af Power over Ethernet
- ▶ Outdoor Vandal-Proof (IP66)



PLANET Enterprise Surveillance Solution

For setting up a complete surveillance system or combining several surveillance systems into an integrated digital security system, PLANET provides a wide variety of network cameras and solutions (Gigabit Ethernet, PoE, wireless and Power-Line) to fulfill each monitoring environment.

Providing the above rich selections, users will easily create a complete surveillance system to protect an international company without additional costs. With this powerful central management software, it can reduce human resources to detect the whole system and help solving emergent situation immediately.



Cube IP Cameras

Wired / Wireless Cube IP Camera

ICA-107 / ICA-107W

- MPEG-4 / M-JPEG
- VGA / QVGA / QQVGA
- DDNS / UPnP
- iPhone Viewer for iCV3
- IEEE 802.11n with WPS (ICA-107W)



Wireless Desktop IP Camera

ICA-150W

- IEEE 802.11g
- MPEG-4 / M-JPEG
- VGA / QVGA / QQVGA
- DDNS / UPnP



H.264 Cube PoE IP Camera

ICA-HM100

- 1.3 Mega-Pixel CMOS image Sensor
- H.264 / MPEG-4 / M-JPEG
- IEEE 802.3af PoE
- Micro SD slot
- 3GPP / Save-to-NAS



H.264 Cube Wireless IP Camera

ICA-HM100W

- 1.3 Mega-Pixel CMOS image Sensor
- H.264 / MPEG-4 / M-JPEG
- IEEE 802.11n with WPS
- Micro SD slot
- 3GPP / Save-to-NAS



Model	ICA-107 Series	ICA-150W	ICA-HM100 Series
Sensor	1/4" Color CMOS	1/4" Color CMOS	1/3" MP CMOS
Lens	f=3.6mm/F1.8	f=6mm/F1.8	f=4.3mm/F1.8
Max resolution	640*480 (30fps)	640*480 (30fps)	1280*1024 (15fps)
View Angle	H: 47 Degree V: 36 Degree	H: 29 Degree V: 22 Degree	H: 48 Degree V: 37 Degree
PoE / Wireless	- / ■	- / ■	■ / ■

Box IP Cameras

H.264 2 Mega-Pixel 35 Outdoor IR IP Camera

ICA-HM351

- 1080p / 2 Mega-Pixel Real-Time Resolution
- H.264 / MPEG-4 / M-JPEG
- 35 Meters IR LEDs
- IEEE 802.3af PoE
- ONVIF / IP-66 Resistance Certified
- Industrial design with -30 to 60 Degree C



Box IP Cameras

H.264 Full-HD Box IP Camera

ICA-HM126

- 1080p / 2 Mega-Pixel Resolution
- 3GPP & Micro SD slot
- IEEE 802.3af PoE
- IPv6 / ONVIF



H.264 Full-HD Box IP Camera

ICA-HM126R

- 1080p / 2 Mega-Pixel Resolution
- 30fps at HDTV Video Resolution
- 3GPP & Micro SD slot
- IEEE 802.3af PoE
- IPv6 / ONVIF



3 Mega-Pixel H.264 IP Camera

ICA-HM127

- 3 Mega-Pixel / Full HD Resolution
- H.264 / MPEG-4 / M-JPEG
- ICR for Day and Night
- IEEE 802.3af PoE
- IPv6 / ONVIF



18x Optical Zoom WDR Box IP Camera

ICA-HM718

- 18x Optical, 8x Digital Zoom
- 30fps at HDTV Video Resolution
- ICR for Day and Night
- IEEE 802.3af PoE
- IPv6 / ONVIF



Model	ICA-HM126 ICA-HM126R	ICA-HM127	ICA-HM718	ICA-HM351
Sensor	1/2.7" 2MP Progressive CMOS	1/2.7" 3MP Progressive CMOS	1/2.8" Sony Progressive CMOS	1/2.7" 2MP Progressive CMOS
Lens	f=4.0mm/F1.5	F=3.1~8mm/F1.2	f=4.7~84.6.5mm Optical/ F=1.6(Wide), F=2.0(Tele)	F=3.1~8mm/F1.4
Max resolution	1920*1080 (15fps) 1920*1080 (30fps)	2048*1536 (20fps) 1920*1080 (30fps)	1920*1080 (30fps)	1920*1080 (30fps)
View Angle	H: 66 Degree V: 52 Degree	H: 38.7 ~ 95.9 Degree V: 29.7 ~ 71.0 Degree	H: 3.3~61.5 Degree V: 1.86~37 Degree	H: 66 Degree V: 52 Degree
Operating Temperature	0°C~50°C	0°C~50°C	0°C~40°C	-30°C~60°C

Bullet IP Cameras

H.264 2 Mega-Pixel Infrared IP Camera

ICA-HM312

- 1080p / 2 Mega-Pixel Resolution
- 30fps at HDTV Video Resolution
- H.264 / MPEG-4 / M-JPEG
- 25 Meters IR LEDs
- IEEE 802.3af PoE
- IP-66 Resistance Certified



2 Mega-Pixel PoE Outdoor IR IP Camera

ICA-HM316

- 1/3.2" Vari-Focal 3.6~16mm Lens
- 25 Meters IR LEDs
- ICR for Day and Night
- IEEE 802.3af PoE
- IP-66 Resistance Certified



2 Mega-Pixel Wireless Outdoor IR IP Camera

ICA-HM316W

- 1/3.2" Vari-Focal 3.6~16mm Lens
- 25 Meters IR LEDs
- ICR for Day and Night
- IEEE 802.11n Wireless
- IP-66 Resistance Certified



3 Mega-Pixel PoE Outdoor IR IP Camera

ICA-HM317

- 3 Mega-Pixel / Full HD Resolution
- 25 Meters IR LEDs
- H.264 / MPEG-4 / M-JPEG
- ICR for Day and Night
- IEEE802.3af PoE
- IPv6 / ONVIF
- IP-67 Resistance Certified



Model	ICA-HM312	ICA-HM316	ICA-HM316W	ICA-HM317
Sensor	1/2.7" 2MP Progressive CMOS	1/3.2" 2MP Progressive CMOS	1/3.2" 2MP Progressive CMOS	1/2.5" 3MP Progressive CMOS
Lens	f = 4mm/F1.4	f = 3.6~16mm/F1.2	f = 3.6~16mm/F1.2	f = 6.0mm/F1.2
Max resolution	1920*1080 (30fps)	1600*1200 (15fps)	1600*1200 (15fps)	2048*1056 (20fps) 1920*1080 (30fps)
View Angle	H: 66 Degree V: 52 Degree	H: 20.8~75.4 Degree V: 15.7~54.9 Degree	H: 20.8~75.4 Degree V: 15.7~54.9 Degree	H: 56 Degree V: 43 Degree
Operating Temperature	-20°C to 50°C	-20°C~50°C	-20°C~50°C	-30°C~50°C

Fixed Dome IP Cameras

H.264 Full-HD Mini Dome IP Camera

ICA-HM131

- 1080p / 2 Mega-Pixel Resolution
- 3GPP & Micro SD slot
- IEEE 802.3af PoE
- IPv6 / ONVIF



H.264 Full-HD Real Time Mini Dome IP Camera

ICA-HM131R

- 1080p / 2 Mega-Pixel Resolution
- 30fps at HDTV Video Resolution
- 3GPP & Micro SD slot
- IEEE 802.3af PoE
- IPv6 / ONVIF



2 Mega-Pixel 20M IR Vari-Focal Dome IP Camera

ICA-HM132

- 1/3.2" Vari-Focal 2.7-9mm Lens
- 20 Meters IR LED
- ICR for Day and Night
- IEEE 802.3af PoE
- DI/DO & Micro SD slot



2 Mega-Pixel 20M IR Vandal Proof Dome IP Camera

ICA-HM136

- 1/3.2" Vari-Focal 2.7-9mm Lens
- 20 Meters IR LED
- ICR for Day and Night
- IEEE 802.3af PoE
- IP-66 / Vandal-Proof



Model	ICA-HM131	ICA-HM131R	ICA-HM132	ICA-HM136
Sensor	1/2.7" 2MP Progressive CMOS	1/2.7" 2MP Progressive CMOS	1/3.2" 2MP Progressive CMOS	1/3.2" 2MP Progressive CMOS
Lens	f=4.0mm/ F1.5	f=4.0mm/ F1.5	f=2.7~9mm/ F1.2	f=2.7~9mm/ F1.2
Max resolution	1920*1080 (15fps) 1920*1080 (30fps)	1920*1080 (15fps) 1920*1080 (30fps)	1600*1200 (15fps)	1600*1200 (15fps)
View Angle	H: 47 Degree V: 36 Degree	H: 47 Degree V: 36 Degree	H: 30.4~101 Degree V: 23~75 Degree	H: 30.4~101 Degree V: 23~75 Degree
Operating Temperature	0°C~50°C	0°C~50°C	0°C~50°C	-20°C~50°C



2 Mega-Pixel 360° Fisheye Wireless IP Camera

ICA-HM830

- 2 Mega-Pixel with H.264 / M-JPEG
- 9 different 360°/180° video mode
- Virtual PTZ function
- IEEE 802.3af PoE
- ICR for Day and Night



2 Mega-Pixel 360° Fisheye Wireless IP Camera

ICA-HM830W

- 2 Mega-Pixel with H.264 / M-JPEG
- 9 different 360°/180° video mode
- Virtual PTZ function
- IEEE 802.11n Wireless
- 2-Way Audio / SD slot
- ICR for Day and Night



2 Mega-Pixel 360° Fisheye Vandal-Proof IP Camera

ICA-HM835

- 9 different 360°/180° video mode
- Virtual PTZ function
- IEEE 802.3af PoE
- ICR for Day and Night
- IP-66 / Vandal-Proof



360° Source image



180° double broad view



360° source view with 3 PTZ



Quad view

Model	ICA-HM830	ICA-HM830W	ICA-HM835
Sensor	1/3" 2MP Progressive CMOS	1/3" 2MP Progressive CMOS	1/3" 2MP Progressive CMOS
Lens	f=1.25mm/F2.0 FOV=185° (D/H/V)	f=1.25mm/F2.0 FOV=185° (D/H/V)	f=1.25mm/F2.0 FOV=185° (D/H/V)
Max resolution	1600*1200 (15fps)	1600*1200 (15fps)	1600*1200 (15fps)
View Angle	H: 185 Degree V: 185 Degree D: 185 Degree	H: 185 Degree V: 185 Degree D: 185 Degree	H: 185 Degree V: 185 Degree D: 185 Degree
Operating Temperature	0°C~50°C	0°C~50°C	-20°C~50°C

PTZ Dome IP Cameras

Wireless H.264 Mega-Pixel PT IP Camera

ICA-HM220W

- 1.3 Mega-Pixel CMOS image Sensor
- Pan range of 350°/Tilt range of 120°
- H.264 / MPEG-4 / M-JPEG
- IEEE 802.11n Wireless
- 10 Meters IR LED
- iPhone Viewer for iCV3



H.264 Indoor CCD Internet Camera

ICA-H610

- 500 TV Lines Resolution at 30fps
- 10x Optical, 10x Digital Zoom
- H.264 / MPEG-4 / M-JPEG
- 2-Way Audio / Micro SD slot
- 3GPP & Store-to-NAS
- IEEE 802.3af PoE



12x Outdoor Speed Dome IP Camera

ICA-H612

- 540 TV Lines Resolution at 30fps
- 12x Optical, 12x Digital Zoom
- ICR for Day and Night
- Wide Dynamic Range
- IPv6 / ONVIF



36x Outdoor Speed Dome IP Camera

ICA-H652

- 540 TV Lines Resolution at 30fps
- 36x Optical, 12x Digital Zoom
- ICR for Day and Night
- Wide Dynamic Range
- IPv6 / ONVIF



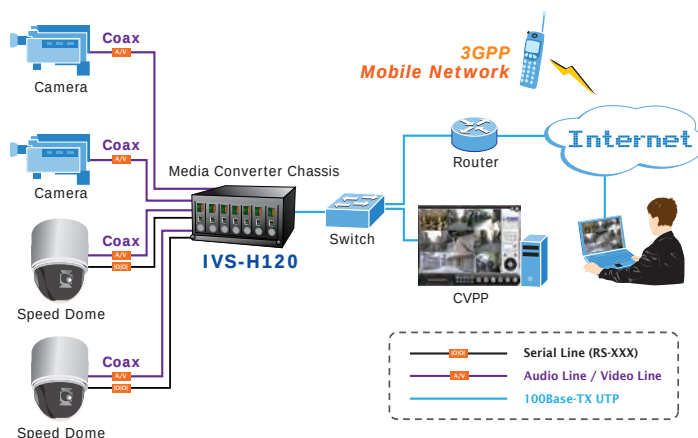
Model	ICA-HM220W	ICA-H610	ICA-H612	ICA-H652
Sensor	1/4" Mega-Pixel CMOS	1/4" Sony CCD	1/4" Sony Exview CCD	1/4" Sony Exview CCD
Lens	f=5.0mm/ F2.8	f=3.8~38.0mm/ F1.8	f=3.8~45.6mm/ F1.6~3.8	f=3.4~122.4mm/ F1.6~3.4
Max resolution	1280*1024 (15fps)	704*576 (30fps) 704*480 (30fps)	704*576 (30fps) 704*480 (30fps)	704*576 (30fps) 704*480 (30fps)
View Angle	H: 65 Degree V: 51 Degree	H: 5.8~51.2 Degree V: 4.3~39.3 Degree	H: 4.6~50 Degree V: 3.5~38.5 Degree	H: 1.8~60.8 Degree V: 1.3~43 Degree
Operating Temperature	0°C~50°C	0°C~40°C	-30°C~50°C	-40°C~50°C

Internet Video Server

H.264 Internet Video Server

IVS-H120

- D1 Resolution at 30fps
- 3GPP / Save-to-NAS
- DI/DO & 2-Way Audio
- PLANET Media Converter Chassis integrated



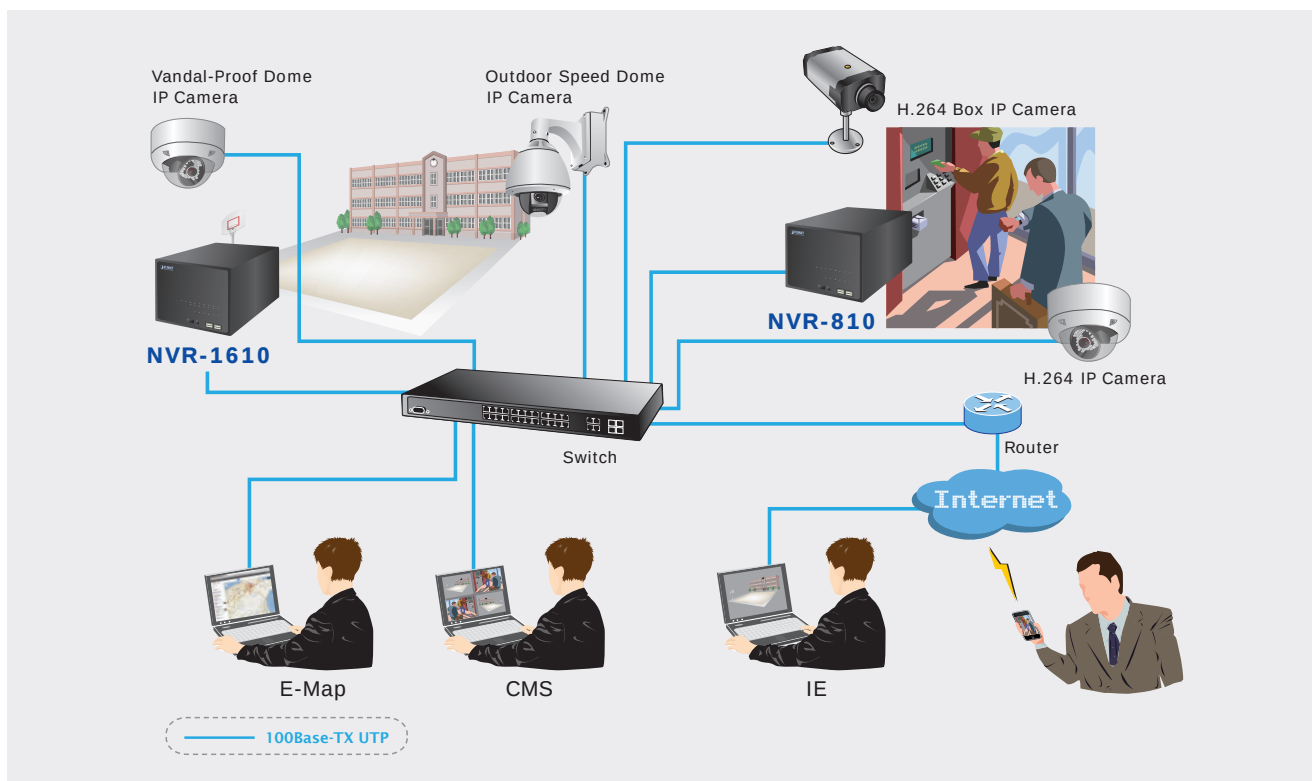
Network Video Recorder

To save the Total Cost of Ownership (TCO), PLANET also provides the alternative way to store all the video/audio from the IP Camera, the NVR - Network Video Recorder. The NVR product family includes 4-ch, 8-ch, 16-ch, 32-ch capability that can records 32 IP cameras that connected in the IP network no matter they are wired or wireless, indoor or outdoor.



4/8/16/32-CH Network Video Recorder-NVR-401/NVR-810/NVR-1610

- Simultaneous Record and Live Video Streams
- Supports M-JPEG / MPEG-4 / H.264 compressions
- Video resolution up to 5MP (2560 x 1920)
- **E-Map interface in web and CMS configuration**
- Up to 4 / 8 / 16 / 32 NVR, max. 256 channels with the management software
- Supports mobile phone remote view with WinCE 6.1, Android, Symbian S60, iPhone, Blackberry 4.6



Model	NVR-401	NVR-810	NVR-1610	NVR-3210
Display Mode	Live View / Sequence Mode			
Video Channels & Concurrent Recording	4	8	16	32
Multi-monitor	5	5	5	5
Remote Management	■	■	■	■
Playback / Event / PTZ	■	■	■	■
CMS / E-Map	■	■	■	■
Expansibility (CMS)*	Manage 64 x NVR-401	Manage 32 x NVR-810	Manage 16 x NVR-1610	Manage 8 x NVR-3210
Compression Format	H.264 / MPEG4 / M-JPEG			
Resolution	Depends on Camera (Max. 5MP)			

Remark: Bundled version offered a maximum of 256 channel capability.
For more powerful capability, please refer to model CV3-M1024, managing up to 1024 channels.

Enterprise Surveillance Manager - Cam Viewer 3



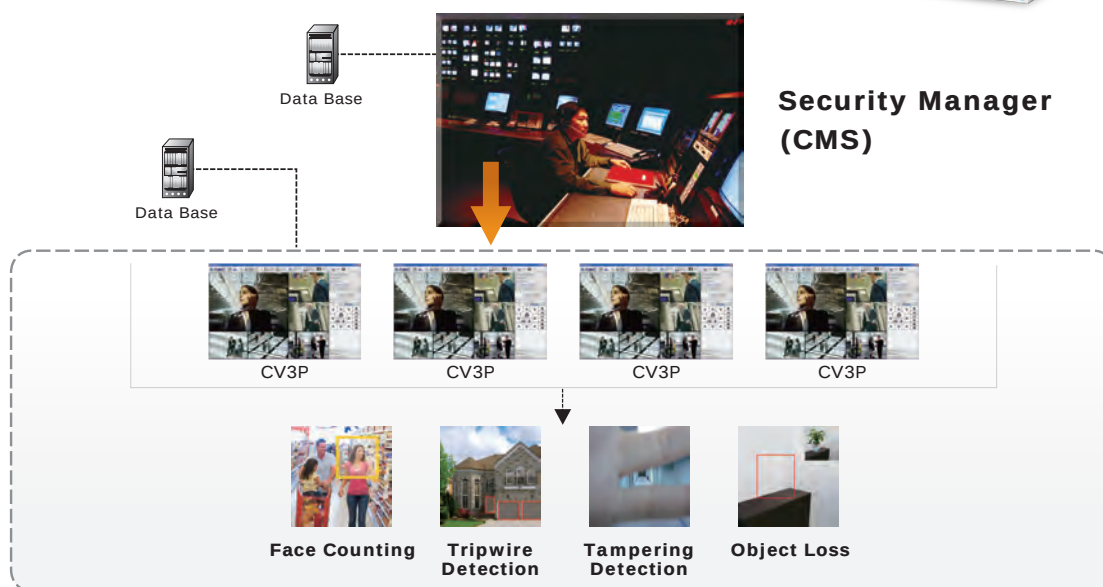
For excellent solution to fulfill advanced surveillance needs and manage different IP cameras with one central management interface, the Cam Viewer 3, the most convenient solution for installers, provides a state-of-the-art IP surveillance system. This software supports the widest choice of PLANET IP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

Management Software

Cam Viewer 3 Professional

CV3P - 4 / 8 / 16 / 32 / 64

- Manage up to 64 IP cameras
- Built-in Intelligent Video Analytics (IVA)
- Up to 9 channels multi-view playback simultaneously
- Up to 5 monitors for live operating
- Unlimited layer E-Map integrated with Google Map
- Real-time / playback video with high quality at 30 / 25 FPS
- Multi-Language / Multi-Manufacturer support



Model	CV3 Lite	CV3 Pro
Playback	4CH synchronous	9CH synchronous
Intelligent	Motion Detection	All*
E-Map	Two-layer	Unlimited layer
Remote management	IE	Client AP, IE, CMS
Remote Configuration	-	■
Full screen mode	1	Not limited
Multi-monitor	4	5

* Motion Detection, Object Loss, Object Counting, Tripwire Detection, Camera Tampering, Image Enhancement, Foreign Objection, Face Counting

* CV3 Lite: Planet IP camera bundled software

Central Management Software (CMS)

PLANET Central Management Software (CMS) is especially designed for PLANET CV3P and NVR. It adds scalability to the existing CV3P and NVR solution. It can manage unlimited number of PLANET CV3P and NVR, maximum 1024 channels in total can be easily monitored through the internet by a web browser on a PC, which are ideal for Enterprise applications of security management. It also provides advanced functions such as multi-monitor display, E-Map Monitor and Intelligent Video Analytics System (IVA) such as Motion detection, Object loss, Trip wire, Tampering detection and Image Enhancement tool that help users in a variety of application environments

Cam Viewer 3 CMS

CV3 - M1024

- Manage Max. 1024 Channels
- Built-in Intelligent Video Analytics (IVA)
- Built-in Image Enhancement Tool
- NVR Group Management with 3-layer E-Map
- Up to 4 channels multi-view playback simultaneously
- Multi-monitor for live operating
- Multi-Language / Smart NVR Search



Remote Monitor

Playback Monitor

E-Map Monitor

Event Monitor

Live Monitor

Control Joystick

3-Axis PTZ USB Joystick

CV3-JS100

- 3-Axis PTZ joystick control
- USB interface convenient for computer and the NVR connection
- One time setting with memory of setting map in the specific used computer and the NVR
- Choice of button configurations
- Cable connector in the back side helps to prevent cable from being plugged out
- 1.5 meter cable line
- Rubber button helps to avoid sliding during operation on the table



Digital Video Recorder

Base on the latest video compression (H.264), DVR is design to be a professional type of security devices. Providing Triplex (Viewing / Recording / Playback) operation to meet more application demands, DVR can be placed either in LAN or WAN connected with easy-to-remember DDNS feature. With Plug-N-Watch capability of web browser, a network administrator or system operator can seamlessly complete network deployment in a few minutes. Supports RS-485 and GPIO interface for users to combine effective external devices and make the security system completed.

Model		DVR-462	DVR-872	DVR-1672
Product Image				
Camera Input		4	8	16
Total Frame Rate		PAL: 100FPS@CIF NTSC: 120FPS@CIF	PAL: 200FPS@CIF NTSC: 240FPS@CIF	PAL: 400FPS@CIF NTSC: 480FPS@CIF
Audio		1 in / 1 out	4 in / 2 out	4 in / 1 out
Hardware	GPIO	4 in / 1 out	8 in / 1 out	16 in / 1 out
	HDD Support	1 x SATA	3 x SATA	3 x SATA
	CD-R/W , DVD-RW Slot	-	SATA (Optional)	SATA (Optional)
	RS-485	Yes	Yes	Yes
Software	Multi-Language	18 Languages	18 Languages	18 Languages
	PTZ Support	Yes	Yes	Yes
	Backup	Network PC USB HDD	Network PC USB HDD / CD-R/W	Network PC USB HDD / CD-R/W

Analog Camera

Model	CAM-DM33	CAM-IR138	CAM-IR338	CAM-IR442V	CAM-IR554
Product Image					
Resolution	330 TVL	420 TVL	380 TVL	420 TVL	540 TVL
Sensitivity	0.2 Lux	0.2 Lux	0.1 Lux	0.3 Lux	0.06 Lux
CCD Sensor	1/4" Sharp	1/3" Sharp	1/3" Sony	1/3" Sony	1/3" Sony
Lens	3.6mm / F:2.0	3.6mm / F:2.0	6.0mm / F:2.0	9~22mm / F:1.8	8mm / F:1.6
IR Distance	-	15 meter	30 meter	40 meter	50 meter
ICR / Auto Iris	- / -	- / -	- / -	Yes / Yes	- / -
Outdoor Housing	-	-	-	-	-
Water Resistance	-	IP-66	IP-66	IP-67	IP-66

Model	CAM-VP38	CAM-IVP55	CAM-IVP55V	CAM-BX42	CAM-BX53	CAM-ISD52*
Product Image						
Resolution	380 TVL	700 TVL	700 TVL	420 TVL	530 TVL	520 TVL
Sensitivity	0.1 Lux	0.01 Lux	0.01 Lux	0.2 Lux	0.1 Lux	0.005 Lux
CCD Sensor	1/3" Sony	1/3" Sony	1/3" Sony	1/3" Sony	1/3" Sony	1/4" Sony
Lens	3.6mm / F:2.0	4.3mm / F:2.0	3.7~12mm / F:2.0	Optional	Optional	3.84~88.4mm / F:1.6~3.0
IR Distance	-	20~25 meter	20~25 meter	-	-	-
Vandal Resistance	10 Pound	10 Pound	10 Pound	-	-	-
ICR / Auto Iris	- / -	- / -	- / -	- / Yes	- / Yes	Yes / Yes
Outdoor Housing	-	-	-	-	-	Yes (with Heater, AC 24V)
Water Resistance	IP-66	IP-66	IP-66	-	-	IP-66

* Compatible with 3-Axis control keyboard, CAM-KB300.

Outdoor Housing

Outdoor Housing for PT IP Camera

ICA-OH

- Built-in FAN (On: 35 Degree C, Off: 15 Degree C)
- Built-in Heater (On: 15 Degree C, Off: 25 Degree C)
- Operation Temperature: -40~60 Degree C
- IP-66 Protection



Supported Cameras:



ICA-H610



ICA-HM220W

Outdoor Housing for Box Camera

ICA-BOX30

- Built-in FAN (On: 35 Degree C, Off: 25 Degree C)
- Built-in Heater (On: 15 Degree C, Off: 25 Degree C)
- Operation Temperature: -20~60 Degree C
- IP-66 Protection
- IR distance: 30m



Supported Cameras:



ICA-HM127



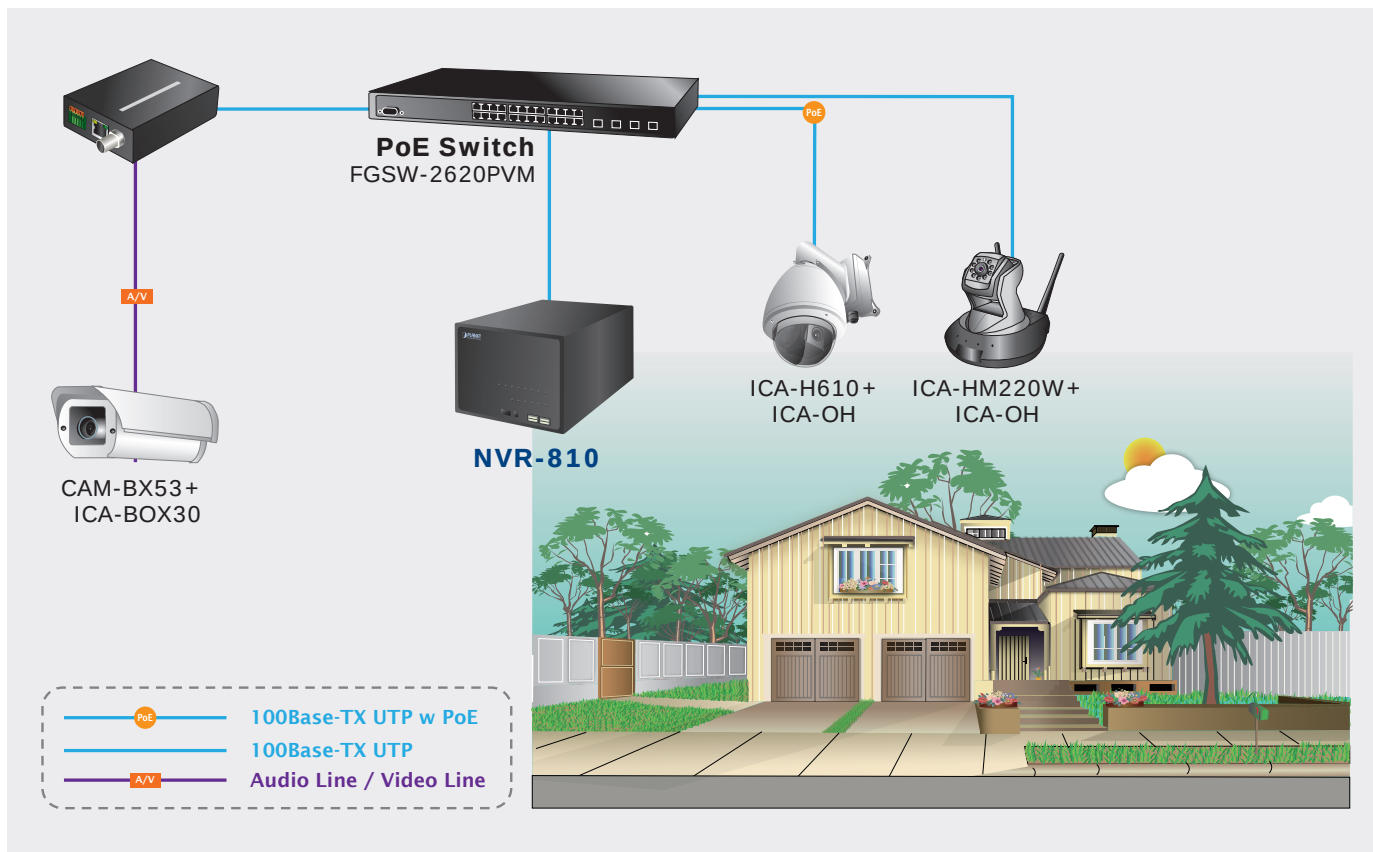
ICA-HM126/
HM126R



CAM-BX42



CAM-BX53



Protective and dependable Network Environment



High Speed and Secure
Internet Access Sharing

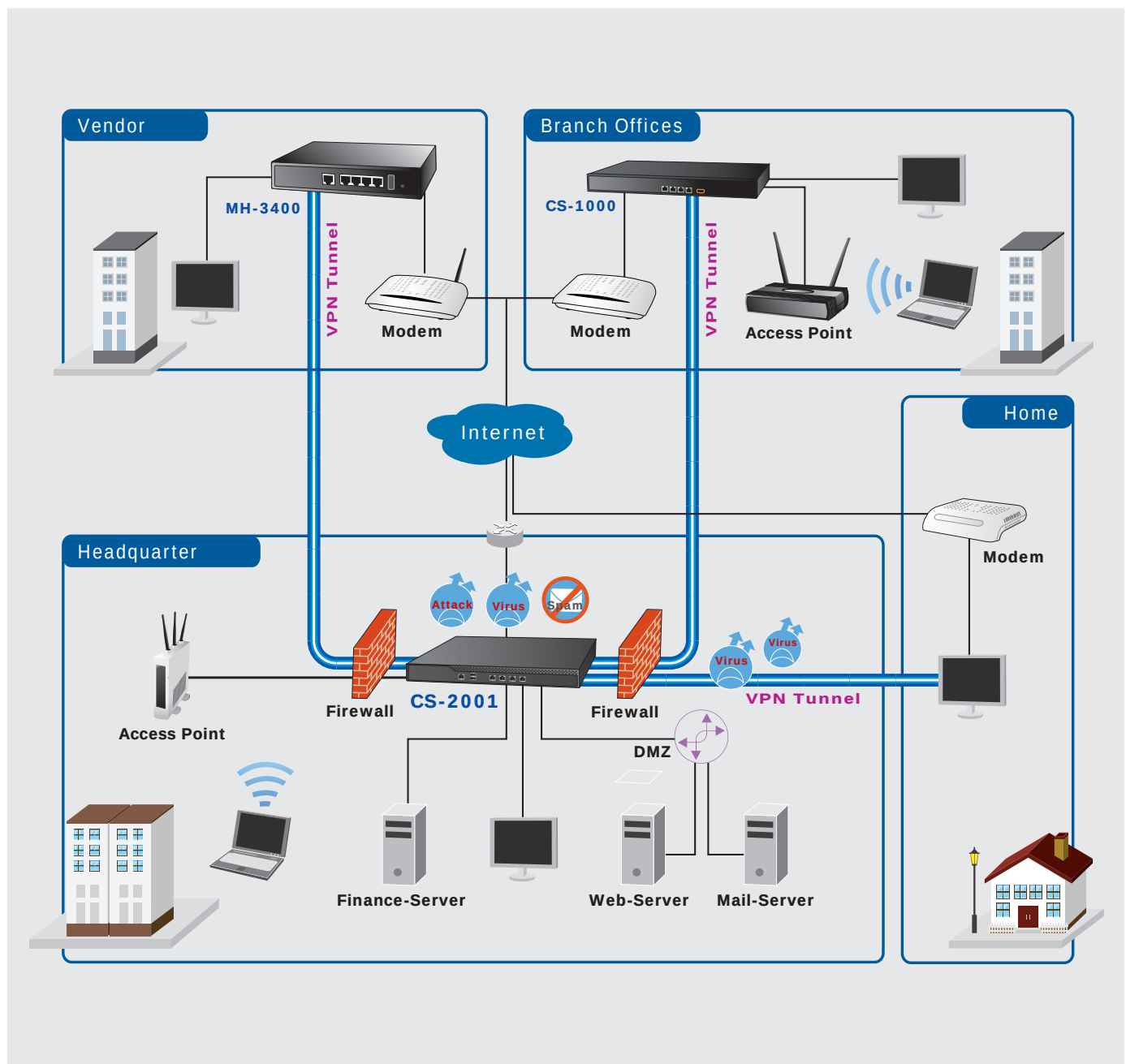


▶ VRT-420N

PLANET Network Security Gateway Solution

PLANET UTM Content Security Gateway is specially designed security gateway with virus and spam filtering features. As the gatekeeper of corporate security network, it prevents corporate intranet from being infected by virus and its network resource occupied by useless spam mails.

Furthermore, IDP, User Authentication and Content Filter features of the security gateway offer the corporate intranet highly secure protection. The UTM Content Security Gateway also provides the IPSec, PPTP, and SSL VPN solutions that the data can be securely delivered via VPN tunnel.



UTM Content Security Gateway

UTM Content Security Gateway

CS-1000

- Anti-virus and Anti-Spam for mail security support
- Spam mail learning system
- IDP
- SPI Firewall
- IPSec and PPTP VPN
- 200 IPSec tunnels
- QoS
- Outbound Load Balancing



Anti-Virus and Anti-Spam Settings



UTM Content Security Gateway

CS-2001

- All Gigabit ports for 2 WAN, 1 LAN, and 1 DMZ ports
- 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



IDP Statistics



Multi-Homing Security Gateway

Gigabit Multi-Homing VPN Security Router

MH-3400

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



Model	CS-1000	CS-2001	MH-3400
Network port	2 x WAN, 1 x LAN, 1 x DMZ	4 x Giga Ethernet user defined interface WAN, LAN, DMZ	WAN: 3~4ports Gigabit Ethernet LAN: 1~2ports Gigabit Ethernet
Concurrent session	110,000	1000000	50000
Firewall performance	100Mbps	1.6Gbps	1 Gbps
VPN Tunnel (Allow to Configure / Connection Tunnels)	IPSec : 200/100 PPTP: 32/32	IPSec : 1000/200 PPTP: 500/50	IPSec : 200/200 PPTP: 60/60
QoS / SNMP	■	■	■
IPv6	-	■	■
Anti-Virus	■	■	-
Anti-Spam	■	■	-

VPN Security Gateway / Bandwidth Management Gateway

Web and IPSec VPN Security Gateway

SG-500

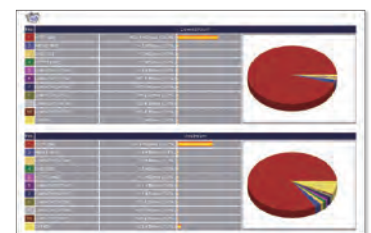
- SSL and IPSec VPN
- 5 SSL tunnels
- Virtual Server and IP mapping
- Content Filtering
- SPI Firewall
- Hacker Alert and Anomaly Flow Detection



Bandwidth Management Gateway

BM-525

- Traffic classification based on IP, IP range/subnet, and TCP/UDP port range
- Guaranteed & Maximum bandwidth with three levels of priorities
- Professional Monitor function includes Log, Accounting Report, Statistics, and Status
- MRTG-like Traffic Statistics, easy to trace and analyze
- Maximum Controlled Bandwidth 25 Mbps
- Content Filter includes URL, Script, P2P, IM, and Download blocking



Service Distribution Chart

VPN Broadband Router

802.11n VPN Broadband Router

VRT-402N

- Multiple DMZ support
- DDNS
- Virtual Server
- IPSec and PPTP
- 25 IPSec tunnels
- Stateful Packet Inspection firewall for DoS attacks
- WISP Supports



802.11n Multi-Homing Broadband Router

VRT-420N

- 2 - WAN interfaces, Load balance and Fail-over
- IPSEC and PPTP VPN
- 25 IPSec Tunnels
- 802.11n up to 150Mbps
- Stateful Packet Inspection Firewall with DoS protection
- WISP supports



Model	SG-500	BM-525	VRT-402N	VRT-420N
Network port	1 x WAN, 1 x LAN, 1 x DMZ	1 x WAN, 1 x LAN, 1 x DMZ	1 x WAN 4 x LAN	2 x WAN 3 x LAN
Concurrent session	20000	45000	15000	15000
Firewall performance	100Mbps	70 Mbps	300 Mbps	300 Mbps
VPN Tunnel (Allow to Configure / Connection Tunnels)	IPSec : 100/200	-	IPSec : 25/25 PPTP: 10/10	IPSec : 25/25 PPTP: 10/10
IEEE 802.11N	-	-	■	■
IPv6	-	-	■	■

Wireless AP Switch / Security Gateway

Wireless LAN Switch / Security Gateway

WLS-1280

- 64/128-bit WEP, WPA, and WPA2 data encryptions
- DoS attack protection
- MAC Access Control List
- up to 12 managed APs
- RADIUS accounting, RADIUS VSA (Vendor Specific Attributes)
- up to 120 concurrent users
- Supported AP: WAP-4033/WAP-4033PE/WAP-4060PE
- Supports Router, NAT mode
- Built-in hardware-based VPN accelerator
- Provides 500 local accounts and 2000 on-demand accounts
- Customizable login and logout portal page



Broadband Router

Internet Fiber Router

FRT-40x

- 100Base-FX Fiber Interface
- SPI Firewall for Anti-DoS Prevention
- Quality of Service Control for FTTH Application
- 802.1Q VLAN and SNMP
- TS-1000 and 802.3ah OAM
- Virtual Server and DMZ



802.11n wireless Fiber Router

FRT-40xN

- 100Base-FX Fiber Interface
- SPI Firewall for Anti-DoS Prevention
- Quality of Service Control for FTTH Application
- 802.1Q VLAN and SNMP
- IEEE 802.11b/g/n
- Up to 300Mbps Wireless Data Rate



802.11n Wireless VoIP Fiber Router

FRT-420SN

- 300Mbps 802.11n with WPS
- 100Base-FX Fiber Interface
- VPN Pass-Through
- SIP 2.0 / T.38 FoIP / STUN
- 3-Way Conference / Caller ID
- Auto Provision / TR-069 / SNMP



Gigabit Broadband Router

XRT-501

- All Gigabit Ports for 1 WAN and 4 LAN ports
- SPI Firewall
- VPN Pass Through
- QoS
- Content and URL Filters
- DMZ, DDNS, and Virtual Server support



Broadband Router

XRT-401F

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





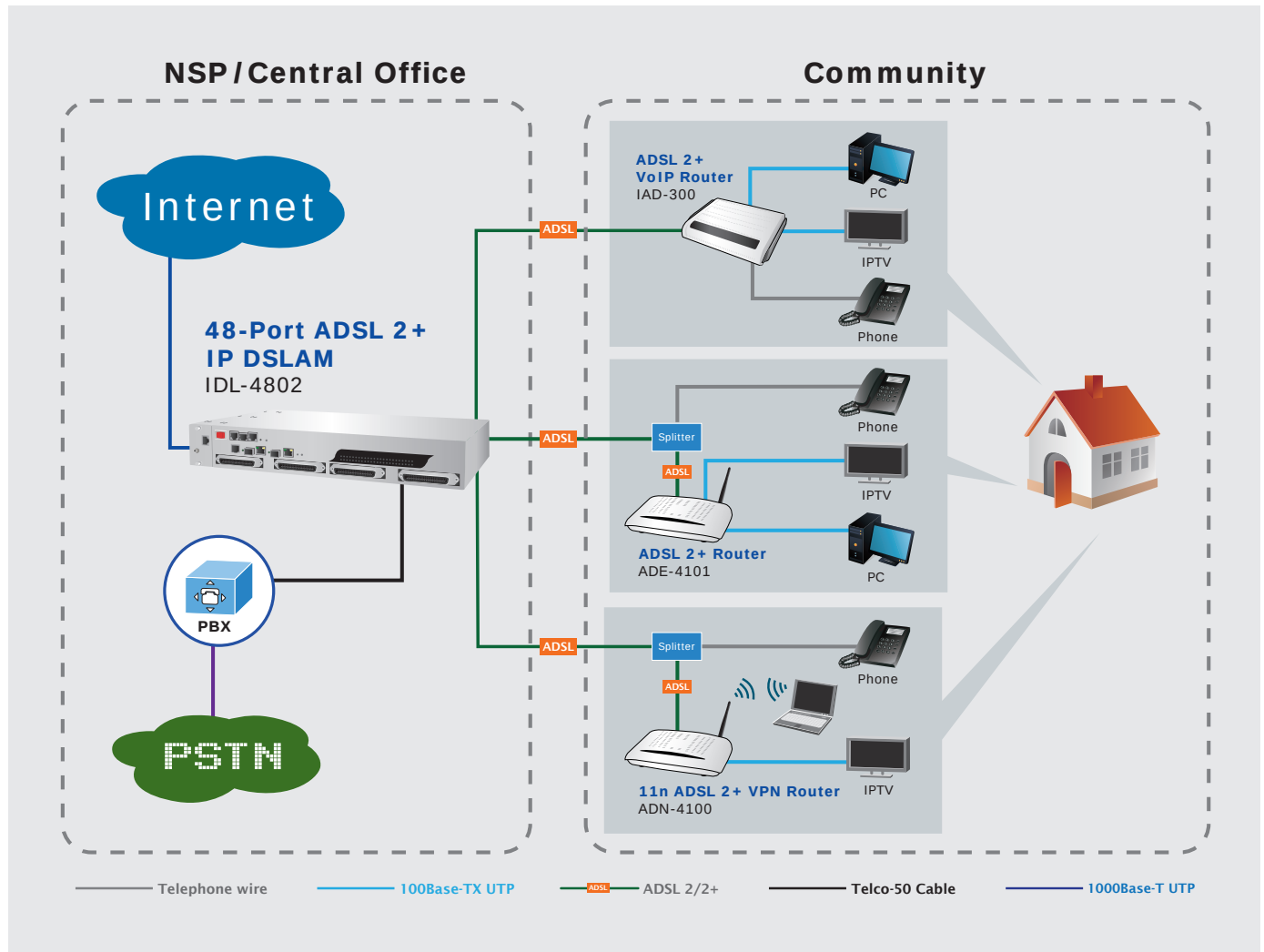
Broadband Communication **High Performance Last Mile** **VDSL2 Solution**



ADSL 2/2+ IP DSLAM

The PLANET IP DSLAM offers the benefit of high performance to central office co-location and MTU (Multi-Tenant Unit) / MDU (Multi-Dwelling Unit) markets. It provides service of broadband data over existing copper wires

without affecting the conventional voice service by 48 subscriber ports with built-in POTS splitter. The PLANET IP DSLAM is the perfect solution for NSP with cost-effective and high-value central management capability.



DSL service data rate & coverage

DSL technology	Downstream / Upstream speed	Max. coverage	Typical application
ADSL 2+	24M / 3.5M	5.6km	VPN, Internet access
G.SHDSL	2.3M / 2.3M (2-Wire) 4.6M / 4.6M (4-Wire)	6.7km	Leased line replacement
G.SHDSL.bis	5.7M / 5.7M (2-Wire) 11.4M / 11.4M (4-Wire)	6.7km	Leased line replacement
VDSL2	100M / 100M	1.8km	Multi-unit building, leased line replacement
GEAPON	1.25G / 1.25G	20km	Point-to-Multipoint

ADSL 2/2+ IP DSLAM

24/48-Port ADSL 2/2+ IP DSLAM

IDL-2402 / IDL-4802

- 24/48-Port DSL/ADSL2/ADSL2+ Subscriber Interface with built-in POTS Splitter
- 1000Base-T Uplink Interface (IDL-2402)
- 2x1000Base-T or 2xmini-GbE Uplink Interface (IDL-4802)
- Static / Port-based / Protocol-based VLAN support
- QoS Traffic Priority (802.1p)
- MAC / IP / Protocol / Port Number Access Control
- Web Management
- Local RS-232 CLI and Ethernet SNMP/Telnet/SSH Management

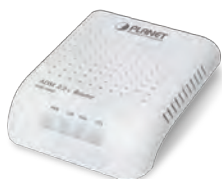


ADSL 2/2+ Router

Single Port ADSL 2/2+ Router with USB

ADE-3400 / ADE-3410

- Compliant with ADSL 2+ standard
- Built-in 1 port switch with auto MDI/MDI-X capability
- Built-in USB 2.0 port (ADE-3410)
- Virtual Servers and DMZ
- VPN Pass through
- SPI Firewall
- TR-069 Ready



4-Port ADSL 2/2+ VPN Router

ADE-4400

- Compliant with ADSL 2+ standard
- Built-in 4-port switch with auto MDI/MDI-X capability
- Virtual Servers and DMZ
- IPSec and PPTP VPN
- SPI Firewall
- Access Control
- TR-069 Ready



4-Port ADSL 2/2+ Router with WiFi

ADW-4401

- Compliant with ADSL 2+ standard
- 802.11g Wireless ADSL 2/2+ Modem Router
- Built-in 4-port switch with auto MDI/MDI-X capability
- Virtual Servers and DMZ
- SPI Firewall
- Access Control
- TR-069 Ready



4-Port 11n ADSL 2/2+ VPN Router

ADN-4100

- 802.11n Wireless ADSL 2/2+ Modem Router
- Multiple SSID
- WPS Push Button Control
- WEP, WPA, WPA2 and 802.1x support
- IPSec and PPTP VPN
- SPI Firewall
- Virtual Servers and DMZ
- TR-069 Ready



4-Port ADSL 2/2+ VoIP Router

IAD-300

- Compliant with ADSL 2+ standard
- SIP 2.0 Support
- Two FXS Interface
- Lifeline Support
- Two USB 2.0 ports for Storage Device & Print Server
- T.38 and G.711 Fax Support
- TR-069 Ready
- QoS



4-Port 11n ADSL 2/2+ Router

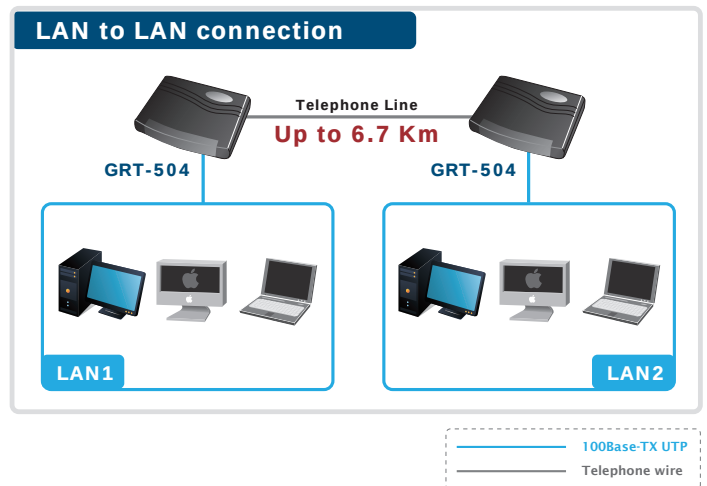
ADN-4101

- 802.11n Wireless ADSL 2/2+ Modem Router
- Multiple SSID
- WPS Push Button Control
- WEP, WPA, WPA2 and 802.1x support
- SPI Firewall
- Virtual Servers and DMZ
- TR-069 ready



G.SHDSL/G.SHDSL.bis

G.SHDSL.bis is the best solution to quickly provide cost-effective, high speed network service to SME users which need high-speed symmetrical Internet connections. By utilizing the existing telephony infrastructure, network installation is simple and straightforward. With up to 11.4 Mbps full duplex speed, IP telephony, website hosting and various broadband applications can be easily provided. The GRT-504 is excellent for Ethernet to extend distance over existing telephone wires. With two pair of AWG-26 or AWG-24 copper wire, it is easy to connect two Ethernet networks far away (maximum 6.7km/4.2 miles).



4-Wire G.SHDSL.bis Router

GRT-504

- G.SHDSL.bis Bridge Router with 4-Port Switch
- High Speed Symmetric Data Transmission, data rate up to 11.4 Mbps at 6.7Km
- Fully ATM protocol stack implementation over SHDSL.bis
- PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP
- IEEE 802.1Q Tagged and Port-based VLAN
- SNMP management with MIB II
- IP QoS and SPI Firewall support

2-Wire G.SHDSL.bis Router

GRT-501

- G.SHDSL.bis Bridge Router with 1-Port Switch
- High Speed Symmetric Data Transmission, data rate up to 5.7 Mbps at 6.7Km
- Fully ATM protocol stack implementation over SHDSL.bis
- PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP
- IEEE 802.1Q Tagged VLAN
- SNMP management with MIB II

4-Wire G.SHDSL Router

GRT-402

- G.SHDSL Bridge Router with 4-Port Switch
- High Speed Symmetric Data Transmission, data rate up to 4.6 Mbps at 6.7km
- Fully ATM protocol stack implementation over SHDSL
- PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP
- IEEE 802.1Q Tagged and Port-based VLAN
- SNMP management with MIB II

2-Wire G.SHDSL Router

GRT-401

- G.SHDSL Bridge Router with 4-Port Switch
- High Speed Symmetric Data Transmission, data rate up to 2.3 Mbps at 6.7km
- Fully ATM protocol stack implementation over SHDSL
- PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP
- IEEE 802.1Q Tagged and Port-based VLAN
- SNMP management with MIB II

2-Wire G.SHDSL Router

GRT-101

- G.SHDSL Bridge Router with 1-Port Switch
- High Speed Symmetric Data Transmission, data rate up to 2.3 Mbps at 6.7km
- Fully ATM protocol stack implementation over SHDSL
- PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP
- SNMP management with MIB II



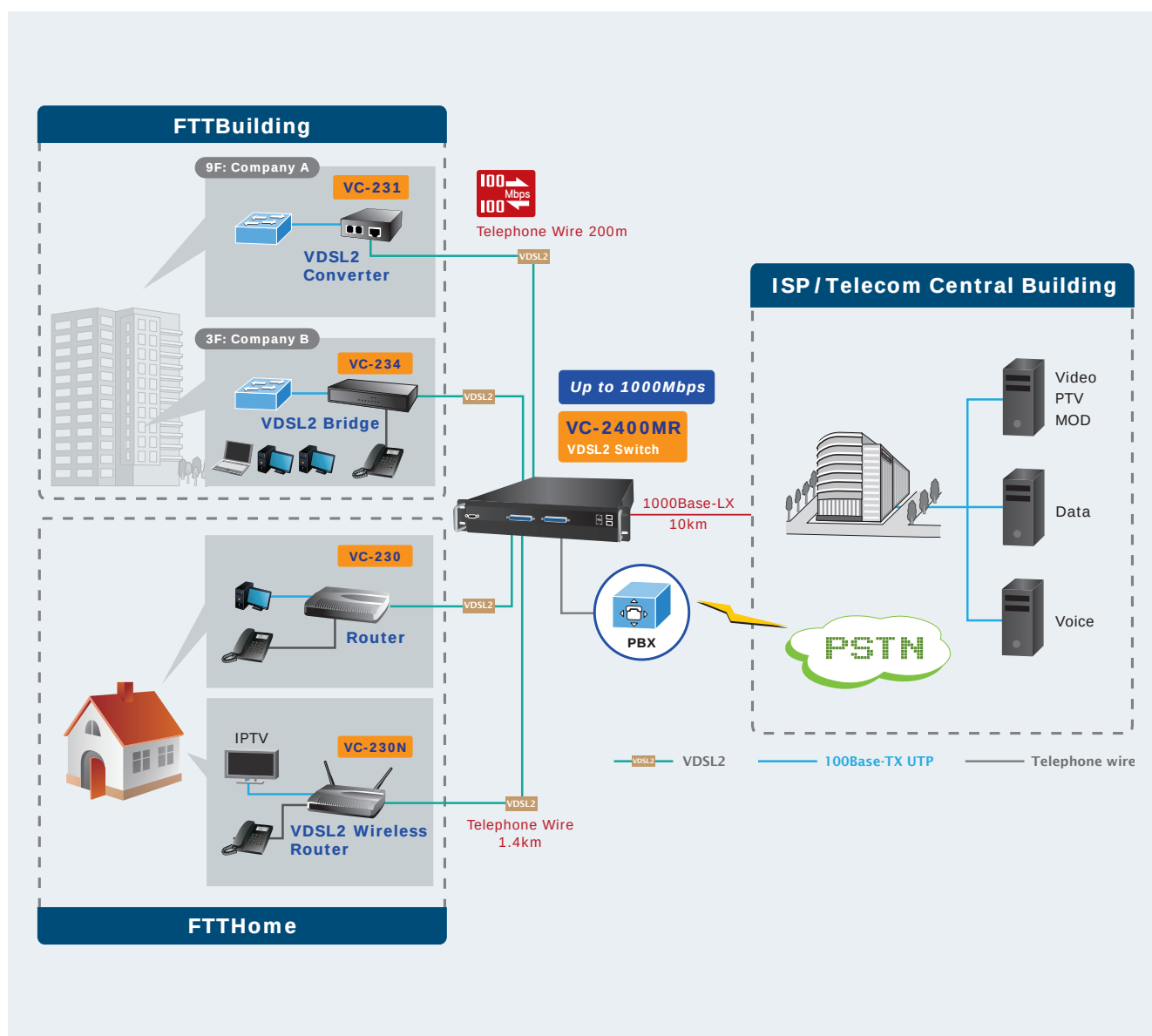
Model	GRT-101	GRT-401	GRT-402	GRT-501	GRT-504
WAN Port	1 x RJ-45 2-Wire	1 x RJ-45 2-Wire	1 x RJ-45 4-Wire	1 x RJ-45 2-Wire	1 x RJ-45 4-Wire
LAN Port	1 x RJ-45 10/100Base-TX	4 x RJ-45 10/100Base-TX	4 x RJ-45 10/100Base-TX	1 x RJ-45 10/100Base-TX	4 x RJ-45 10/100Base-TX
Max. Speed	2.3Mbps	2.3Mbps	4.6Mbps	5.7Mbps	11.4Mbps

VDSL2

Up to 100/100 Mbps asymmetric data rate within 300m and long range of connections provide ultra-high performance to the pervasive telephone line networks. With built-in mini-GBIC 1000Base-SX/LX SFP (Small Factor Pluggable) interfaces, the deployed distance of VC-820M can be extended from 550 meters (Multi-mode fiber) up to above 10/50/70/120 kilometers (Single-mode fiber). The various distances of SFP (Small Factor Pluggable) and Bidi (WDM) transceivers are optional for customers. The feature of long distance support makes VC-820M is a great and ideal solution for FTTx (Fiber to the Building, Fiber to the Campus or Fiber to the Home) applications. It supports high bandwidth VDSL2 over existing telephone wires in the "last mile" from the ISP / Telecom / Service provider's fiber node to the buildings and customers' home.



VC-2400MR / VC-230 / VC-230N



VDSL2 Bridge / Router

10/100TX over VDSL2 Media Converter

VC-201A

- Cost-effect VDSL2 CO / CPE bridge solution
- One box design, CO/CPE selectable via DIP switch
- Built-in POTS splitter, Voice and data communication can be shared on the existing telephone wire simultaneously
- Selectable target data rate and target SNR margin
- Compact in size, easy installation
- 10/19-inch chassis compatible (MC-700/MC-1500/1500R)



17a

10/100TX over Coaxial Media Converter

VC-202A

- ITU-T G.993.2 VDSL2 (Profile 17a)
- Coaxial to Copper media Converter
 - One BNC port connect with Coaxial cable
 - One 10/100Base-TX copper
 - Long reach Ethernet distance up to 3.0km
- CO/CPE mode selectable via DIP switch
- Compact size, standalone or work with MC-700/MC-1000R/MC-1500 family Media chassis
- 10/19-inch chassis compatible (MC-700/MC-1500/1500R)



17a

4-Port 10/100TX to VDSL2 Bridge

VC-204

- VDSL2 ITU-T G.993.2 17a profile
- 100/55Mbps Download/Upload @1000ft
- One box design, CO/CPE selectable via DIP switch
- 4-Port 10/100Base-TX RJ-45
- Built-in POTS splitter
- Selectable target band plan and target SNR margin



17a

High bandwidth 10/100TX over VDSL2 Media Converter

VC-231

- VDSL2 ITU-T G.993.2 30a profile
- 100/100Mbps Download/Upload @1000ft
- 1-port 10/100Base-TX RJ-45
- One box design, CO/CPE selectable via DIP switch
- 10/19-inch chassis compatible (MC-700/MC-1500/1500R)



30a

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

VC-234

- VDSL2 ITU-T G.993.2 30a profile
- 100/100Mbps Download/Upload @1000ft
- 4-Port 10/100Base-TX RJ-45
- Built-in POTS splitter
- One box design, CO/CPE selectable via DIP switch



30a

High bandwidth Wired / Wireless VDSL2 Router

VC-230 / VC-230N

- VDSL2 ITU-T G.993.2 30a profile
- 100/100Mbps Download/Upload @1000ft
- Built-in 4-Port 10/100Base-TX
- 802.11n wireless VDSL2 Router (VC-230N)
- Built-in POTS splitter
- CO/CPE selectable via Web UI
- DMZ and Port Forwarding
- SPI Firewall and Port/IP/MAC/URL Filtering



30a

Model	VC-201A	VC-202A	VC-204	VC-231	VC-234	VC-230/ VC-230N
Profile	17a	17a	17a	30a	30a	30a
Product Type	VDSL2 Converter	VDSL2 Converter	VDSL2 Switch	VDSL2 Converter	VDSL2 Switch	VDSL2 Router
Max. Speed (Downstream/Upstream)	100/55Mbps	100/60Mbps	100/55Mbps	100/100Mbps	100/100Mbps	100/100Mbps
Max. Distance	1500m	3000m	1500m	1400m	1400m	1400m

Remark: The performance data above is for reference only, the actual data rate will vary on the quality of the copper wire and environment factors.

VDSL2 IP DSLAM / CO Switches

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

VDL-2420MR / VDL-2420MR48

- 24-Port VDSL2 subscriber interface with built-in POTS Splitter
- ITU-T G.993.2, 8a / 8b / 8c / 8d / 12a / 12b / 17a / 30a Profiles
- Configurable Line Template and Alarm Template
- Configurable UPBO / DPBO / USO Allow / Virtual Noise PSD
- Configurable Bitswap / G.hs carrier set / RFI Band
- Manual / Ralnit / Dynamic Rate Adaption
- AC / DC power slots for Redundant Power System support



30a



VDL-2420MR

24-Port VDSL2 CO + 2G TP/SFP Combo Manageable Switch

VC-2400MR

- 24-Port VDSL2 CO subscriber interface
- Built-in POTS splitter
- ITU-T G.993.2, 8a/8b/12a/12b/17a/30a Profiles
- Up to 100/100Mbps data rate under 1000ft
- 802.1Q / Q-in-Q / GVRP VLAN
- IP DSCP QoS and Bandwidth Control
- IGMP Snooping v1/v2 and Query mode
- Layer 3/4 ACL, SSL and Port Security
- SNMP v1/v2c/v3 and 4 RMON Groups
- Two power slots for redundant power support
- Options of 100~240V AC or -48V DC supplies

30a



VC-2400MR

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

VC-820M

- 8-Port VDSL2 CO subscriber interface
- Built-in POTS splitter
- ITU-T G.993.2, 8a/8b/12a/12b/17a/30a Profiles
- Up to 100/100Mbps data rate under 1000ft
- 802.1Q / Q-in-Q / GVRP VLAN
- IP DSCP QoS and Bandwidth Control
- IGMP Snooping v1/v2 and Query mode
- Layer 3/4 ACL, SSL and Port Security
- SNMP v1/v2c/v3 and 4 RMON Groups

30a

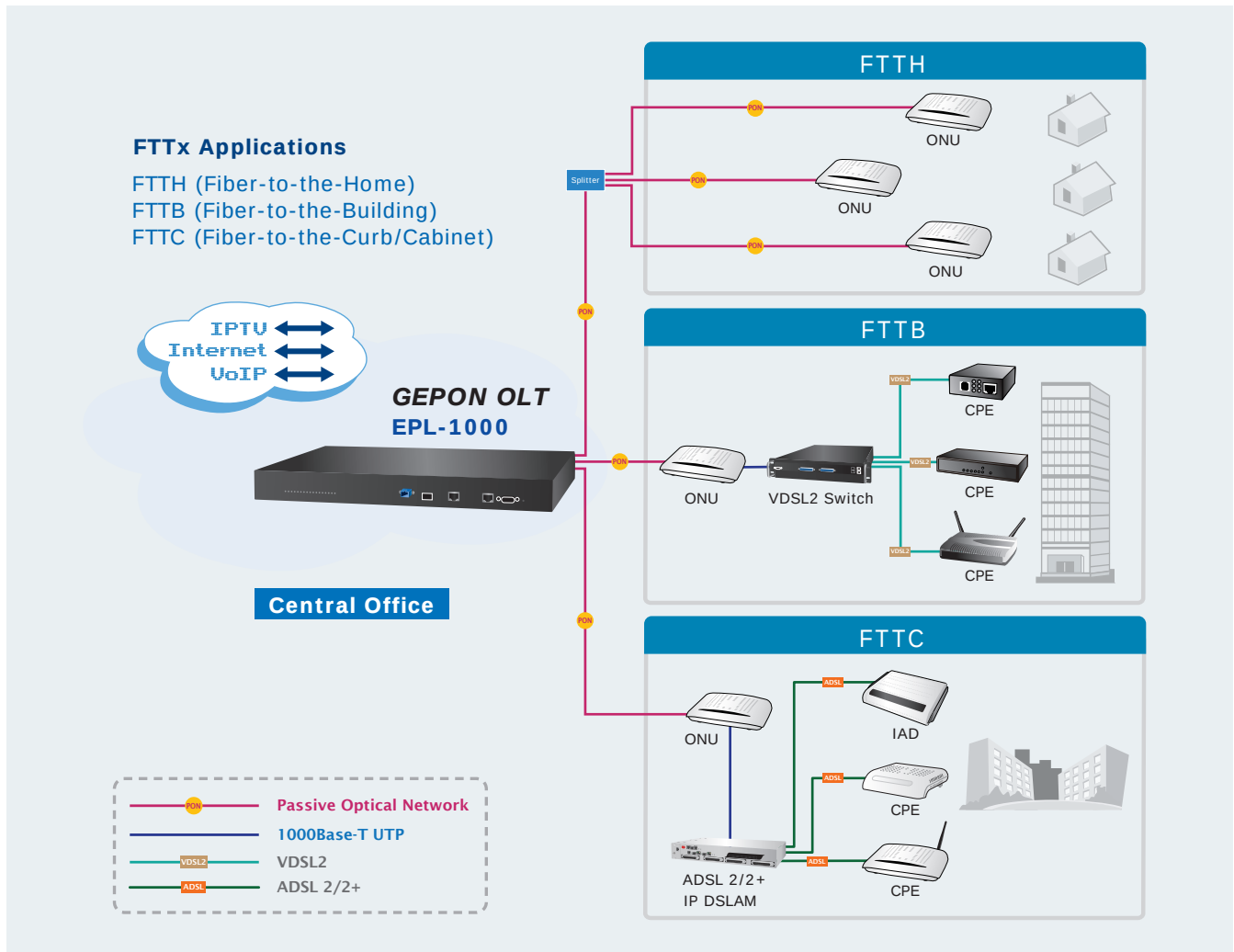


VC-820M

Model	VDL-2420MR/ VDL-2420MR48	VC-2400MR	VC-820M
Subscriber Interface	24-Port	24-Port	8-Port
VDSL2 Interface	1 x Telco-50	1 x Telco-50	8 x RJ-11
POTS Interface	1 x Telco-50	1 x Telco-50	8 x RJ-11
10/100/1000T	2	2	2
1000SX/LX	2 (Combo)	2 (Combo)	2 (Combo)
VDSL Profile	8a, 8b, 8c, 8d, 12a, 12b, 17a and 30a		
Dimension (WxDxH)	440 x 88 x 350 mm, 2U	440 x 88 x 350 mm, 2U	440 x 220 x 44 mm, 1U
Power	100~240V AC	100~240V AC	100~240V AC
Redundant Power	Optional 100~240V AC / -48V DC	Optional 100~240V AC / -48V DC	-

GEAPON

With growing network services such as HDTV, IPTV, voice-over-IP (VoIP) and Multimedia broadband applications and the demand of broadband rises quickly. The present Broadband environment has not already accorded with needing; however, Passive Optical Network (PON) would be the most promising NGN (Next Generation Networking) technology to fulfill the demand.



GEAPON OLT EPL-1000

- PON interface complies with IEEE 802.3ah
- Supports 1 x PON Port and 1 x Gigabit TP/SFP Combo Interface
- Up to 20Km Distance
- Up to 1.25Gbps Upstream and Downstream
- Dynamic Bandwidth Allocation (DBA) support
- IEEE 802.1p QoS and IEEE 802.1q VLAN support
- Up to 4096 VLAN and 4K MAC Table
- Point-to-multipoint network topology
- LED indicators for link status
- Enhanced IGMP features
- User-Friendly GUI Management
- One PON port supports maximum 32 EPN-102



GEAPON SFU ONU EPN-102

- Fully compliant with IEEE 802.3ah
- Up to 1.25Gbps Upstream and Downstream
- Up to 20Km Distance
- 128-bit Advanced Encryption Standard (AES) encryption
- Dynamic Bandwidth Allocation (DBA) support
- 802.1x authentication
- Up to 64 MAC Addresses
- IEEE 802.1p QoS and IEEE 802.1q VLAN support
- 1-Port FE and GE for EPN-102





**500M Powerline
Ethernet Bridge**

▶ PL-701



Wireless Router

Easy Plug & Play - 500M Powerline Ethernet Bridge

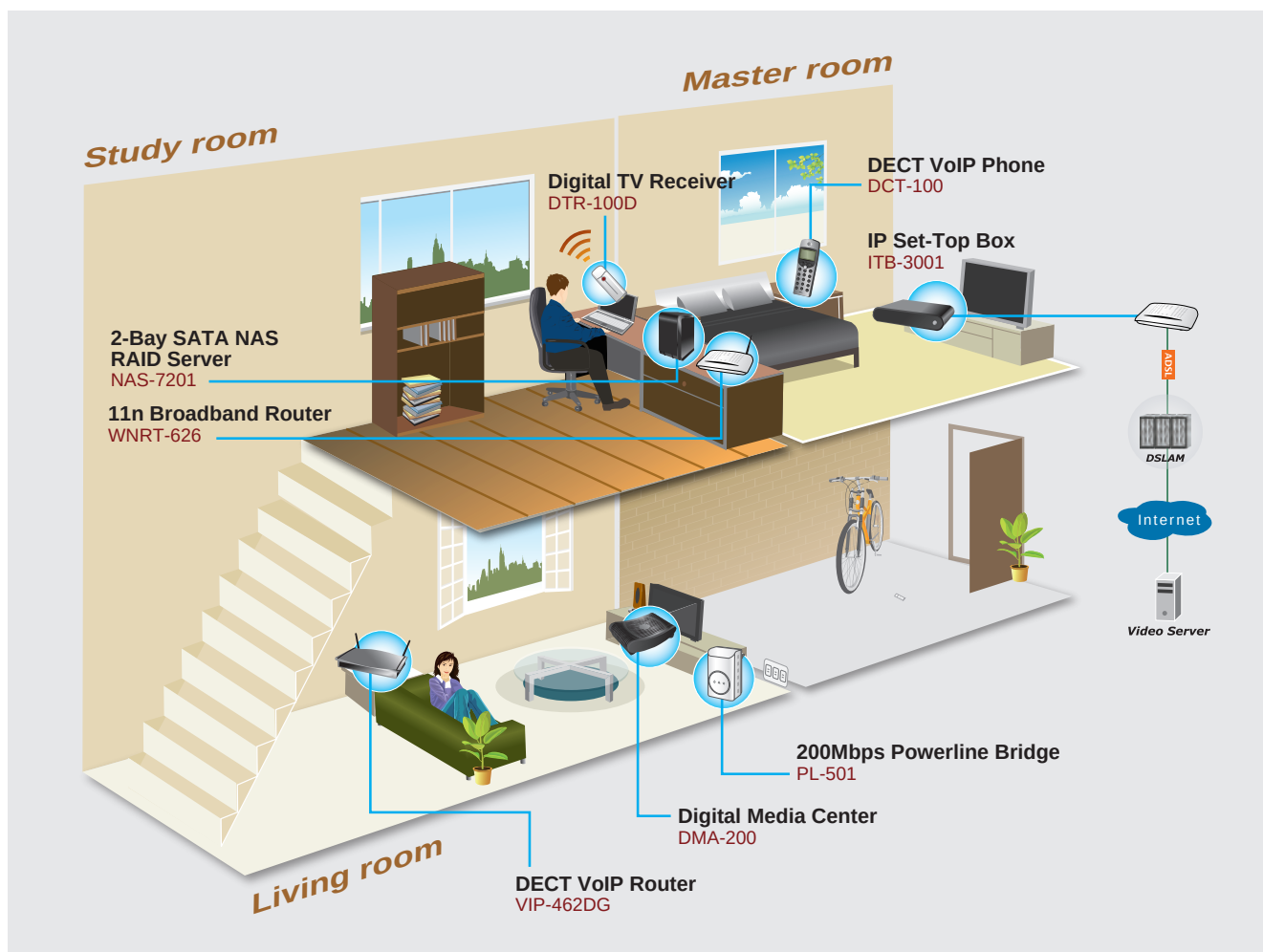


- ▶ HomePlug AV
- ▶ High-Speed Range Extension
- ▶ High-Quality Transmission for Streaming & Gaming

PLANET Digital Media Center Solution

The PLANET Digital Media Center Solution is advanced customer premises equipment for delivering streaming audio, video, and data directly from network or Internet on consumers' TV sets and/or Home Entertainment systems. If you have already set up your local area network or connected to Internet, you can huddle on the sofa using supplied

remote control to search and enjoy your favorite pictures, movies, or surf webs but no need to always be seated next to your computer or Home Entertainment systems. Besides connecting your PC with the network, you can simply plug in your USB devices to access and play the media files via user-friendly On-Screen Display menu.



Share Your Digital Media over Your Home Network



Digital Media Center

Digital Media Center

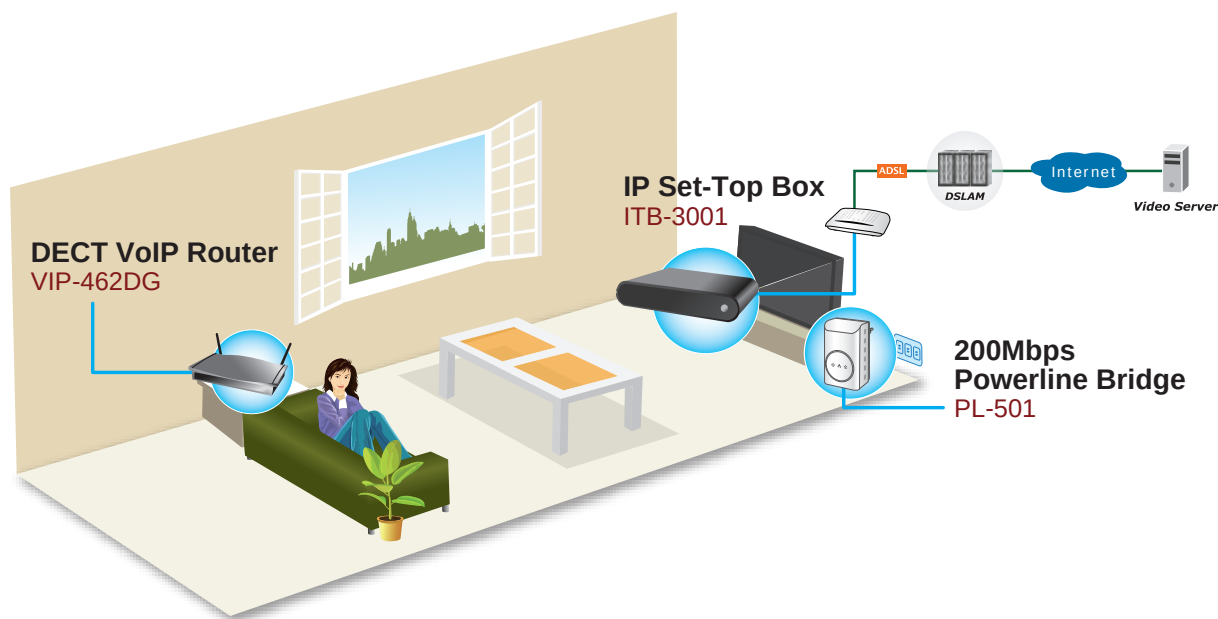
DMA-200

- Stream media contents from a PC or digital device to your entertainment center
- Instant access video, music, and photo on USB devices via a built-in USB 2.0 connector
- 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
- Supports Internet radio (Live 365, vTuner, etc.)
- Favorite Web TV / Photo / Radio Station Gallery
- Surfing Internet on TV Simply & Bit Torrent Downloading



Play & Enjoy your Digital TV Anywhere within the Home

In addition to video/audio streaming from content provider, the embedded web browser allows users to easily select their VOD/IPTV titles/channels and surf selected internet web sites.



IP Set-Top Box

High Definition IP Set-Top Box ITB-3001

- Built-in VLC Station for IPTV Demo
- Built-in Flickr for photo sharing
- Full HD (1080p) & HDMI
- UPnP and DLNA compliant
- Video-on-Demand and multicast IPTV
- Electronic Program Guide and Digital rights management
- Surfing Internet on TV simply
- Personal Video Recording



Multimedia

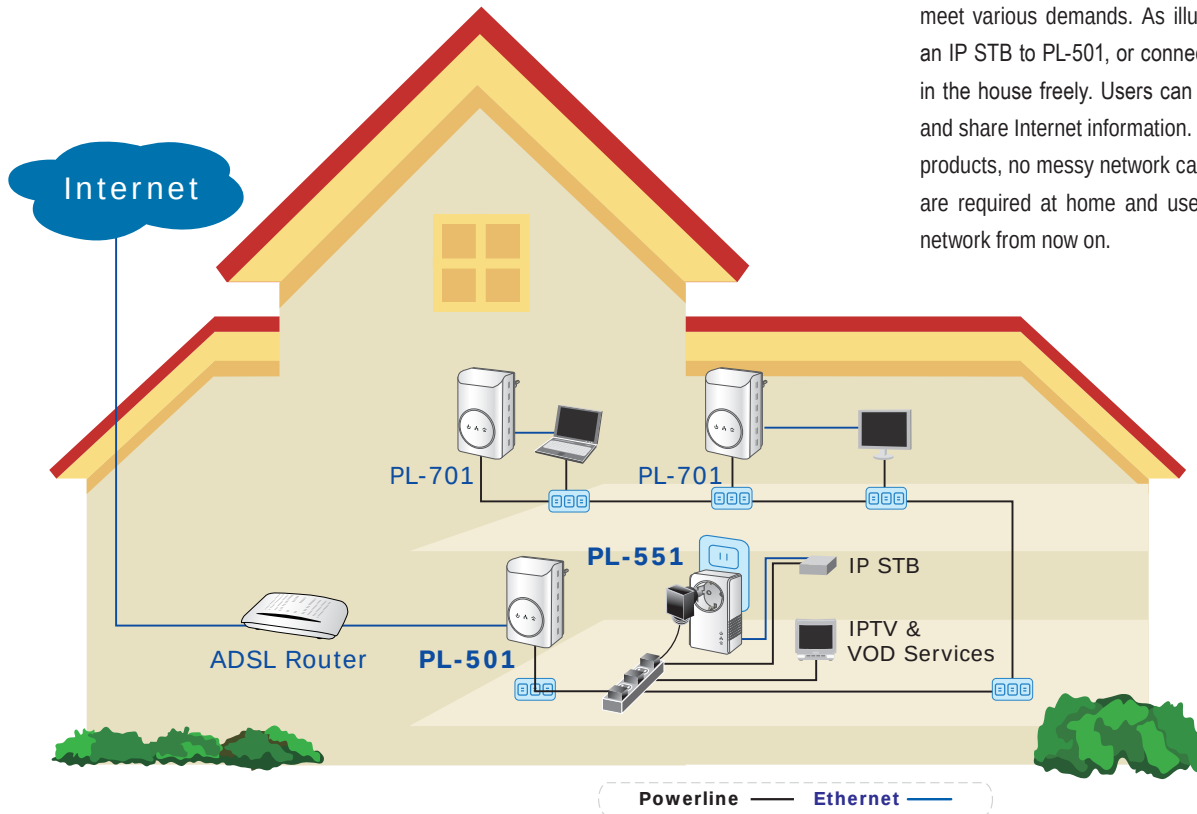
USB 2.0 Digital TV Receiver (DVB-T) DTR-100D

- Compliant with DVB-T Standard (DTR-100D)
- 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 language (English, German, French, Italian, Dutch, Spanish, Portuguese, Traditional Chinese, and Simplified Chinese)



High-Speed Ethernet Connection via Home's Power Supply

PLANET provides several types of powerline products to meet various demands. As illustrated, users may connect an IP STB to PL-501, or connect a PC to PL-501 or PL-701 in the house freely. Users can enjoy IPTV or VOD service and share Internet information. With the PLANET powerline products, no messy network cables and additional switches are required at home and users can entirely enjoy home network from now on.



Powerline Adapter

500Mbps Powerline Bridge

PL-701

- HomePlug AV compliant
- Direct attached to power outlets
- Connect 10/100/1000 Ethernet network to Powerline network
- Up to 500Mbps data rate on the powerline
- 128-Bit AES link Encryption for security and reliability
- Built-in QoS
- IGMP snooping for multicast to multiple uni-cast mapping

200Mbps Powerline Bridge/Pass-Through Adapter

PL-501 / PL-551

- HomePlug AV compliant
- Direct attached to power outlets
- Connect 10/100 Ethernet network to Powerline network
- Up to 200Mbps data rate on the powerline
- 128-Bit AES link Encryption for security and reliability
- Built-in QoS
- IGMP snooping for multicast to multiple uni-cast mapping



PL-701



PL-501



PL-551

Perfect Home Media Server

Work & Play Anywhere



Sharing Music, Picture and Data

2-Bay SATA NAS Server

► **NAS-7202**

Network Storage Server

1-Bay SATA NAS Server

NAS-7103

- 10/100/1000M-Gigabit Ethernet port
- Provides Scalability up to 3TB
- Supports Windows / MAC Utility and Web Base Management
- Share Music, Pictures, Movies and Data over Network
- Supports BT Download, DLNA, iTunes Media Server



2-Bay SATA NAS RAID Server

NAS-7202

- Support RAID 0, 1 and JBOD
- 10/100/1000M-Gigabit Ethernet port
- Provides Scalability up to 6TB (with 3TB per HDD)
- Supports Windows / MAC Utility and Web Base Management
- Share Music, Pictures, Movies and Data over Network
- Supports BT Download, DLNA, iTunes Media Server
- 2 Standard USB 2.0 Port for External USB HDD and Print Server Sharing



1U Rack-Mountable 4-Bay NAS Server with iSCSI

NAS-7450

- RAID 0, 1, 5, 6, 10 and JBOD
- Simultaneously supports NAS and iSCSI SAN
- Two Giga Ethernet for Load balancing and Failover
- Integrates Anti-virus engine to protect valuable data
- Revolutionary dual-function NAS server integrates both On-line file service into one centralized storage server
- Multi-Protocol system support for Windows, MAC, Solaris, FreeBSD, Linux and other UNIX derivatives



2U Rack-Mountable 8-Bay NAS Server with Dual Power Supply

NAS-7850

- RAID 0, 1, 5, 6, 10 and JBOD
- Simultaneously supports NAS and iSCSI SAN
- Two Giga Ethernet for Load balancing and Failover
- Integrates Anti-virus engine to protect valuable data
- Redundant power supplies for reliability continuity
- Revolutionary dual-function NAS server integrates both On-line file service into one centralized storage server
- Multi-Protocol system support for Windows, MAC, Solaris, FreeBSD, Linux and other UNIX derivatives



Model	NAS-7103	NAS-7202	NAS-7450	NAS-7850
CPU	PLX810DSE 360MHz	PLX7821 750MHz	Intel Celeron 2.0GHz	Intel Core 2Duo 2.2GHz
RAM	128MB	128MB	2GB	2GB
Hard Disk Tray	SATA I/II x1	SATA I/II x2	SATA I/II x 4	SATA I/II x 8
Scalability	Up to 3TB	Up to 6TB	Up to 8TB	Up to 16TB
Network Interface	Gigabit x1	Gigabit x1	Gigabit x 1	Gigabit x 1
RAID Support	-	RAID 0/1 JBOD	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10
FTP Support	■	■	■	■
User Management	■	■	■	■
Download Management	■	■	■	■
iTunes	■	■	-	-
BT/FTP/HTTP Download	BT/FTP/HTTP	BT/FTP/HTTP	-	-
DLNA	■	■	-	-
IP-SAN (iSCSI)	-	-	■	■
Anti-Virus	-	-	■	■
Redundant Power	-	-	-	■
Market Position	SMB/SOHO	SMB/SOHO	Enterprise	Enterprise

Print Server

802.11n Wireless USB MFP Print Server

FPS-1012N

- Support for most popular NOS
- Supports 10/100Mbps Auto-Nway, Automatically Negotiates optimal mode
- Auto detects the connected cable type while connecting to different LAN devices
- Intuitive management utility provided for Windows 98/2000/Me/ NT/XP/ Server 2003/Vista/Windows7 or Web-Base Management
- IPP (Internet Printing Protocol) Server, allowing your clients, suppliers, and colleagues to operate your printers from anywhere on the Internet
- Support most of the MFP of the market, such as HP, Canon, EPSON, Lexmark, Samsung, etc.
- Supports GDI interface
- IEEE 802.11n interface compatible



Direct Attach Print Server

FPS-1101

- Slim size and direct attach to your printer without additional cable
- Compliant with standard DB-36 port
- Compatible with Windows 95/98/Me/2000/NT/XP/Server 2003/ Vista, Novell, Linux, Unix, and MAC OS
- Supports TCP/IP, IPX/SPX, AppleTalk, Bi-Directional protocol
- Supports 10/100Mbps Auto-Nway, Automatically Negotiates optimal mode with Auto MDI/MDI-X
- Intuitive utility of management supports Windows 98/2000/Me/NT/XP/ Server 2003/Vista & Web-Base Management
- HP Web JetAdmin compatible



Multi-Port Print Server

FPS-3300

- Supports with 3 standard DB-36 port
- Compatible with Windows 95/98/Me/2000/NT/XP/Server 2003/ Vista, Novell, Linux, Unix, and MAC OS
- Supports TCP/IP, IPX/SPX, AppleTalk, Bi-Directional protocol
- Supports 10/100Mbps Auto-Nway, Automatically Negotiates optimal mode with Auto MDI/MDI-X
- Intuitive utility of management supports Windows 98/ 2000/Me/NT/XP/ Server 2003/Vista & Web-Base Management
- HP Web JetAdmin compatible

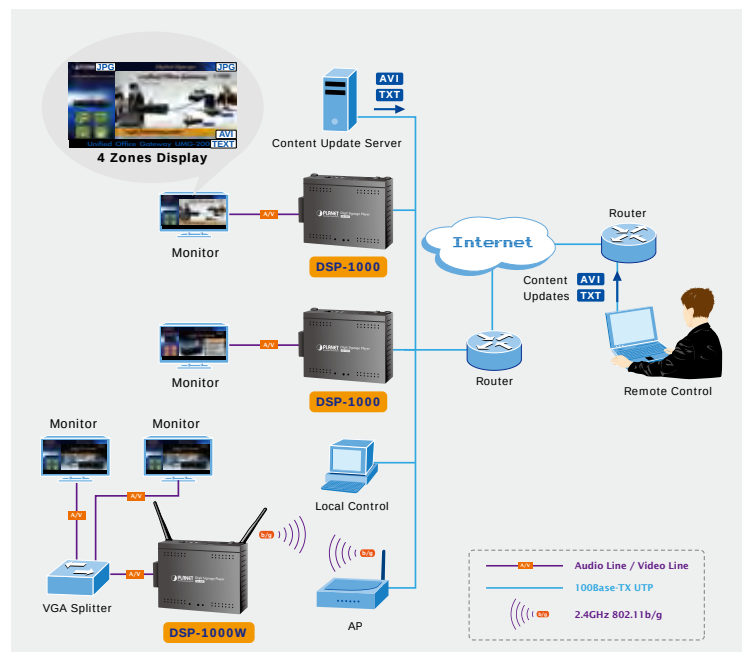


Digital Signage

High Definition Digital Signage Player

DSP-1000 / DSP-1000W

- Digital Audio/Video Output over HDMI
- 1080p High Definition Video
- Scrolling Text Message
- Scheduled Content Download from HTTP or FTP Server
- IEEE 802.11 b/g (DSP-1000W)



KVM Switch

17" LCD Drawer KVM Console with 8/16 Ports Combo-Free Module

DKVM-1708 / DKVM-1716

- Easy to install, single rail design
- Supports high resolution up to 1280 x 1024 @ 75Hz
- Support 6 keyboard languages (continually increase)
- Heavy-Duty Electroplate Steel
- OSD function for LCD display and KVM switch
- Complies with EIA RS-310C 19" Rack Mount standard
- Supports Combo KVM module to connect servers/KVM via USB & PS/2 connection
- Cascade controls 128/256 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



8 / 16-Port IP KVM Switch

IKVM-8010 / IKVM-16010

- Remote mass storage control
- LED display for easy status monitoring
- Keyboard status restored when switching PCs
- Buzzer sound for switching port confirmation
- Compliant with DOS, Windows, Netware, Unix, Linux
- Supports password protection and PC server name search
- Built-in one extra daisy chain port to cascade with KVM-800 & KVM-1600
- No DIP switch setting required and auto detect daisy chain bank
- Automatically senses video resolution for best possible screen capture
- Supports SSL protocol for any encrypted network traffic between itself and a connected client
- Resolution up to 1920 x 1440 (local side) or 1600 x 1200 (remote side)



8/16 Port Stackable PS/2 KVM Switch

KVM-800 / KVM-1600

- No software required easy PC selection via Push button and Hot key functions
- 19" rack mount size design
- Daisy chain up to 7 additional units to control up to 128 computers from single console
- OSD (On Screen Display) supported visualize computer management
- Auto scan mode for monitoring PC
- Plug and play system configuration



2/4 Port PS/2 KVM Switch with Cables Molded

KVM-203 / KVM-403

- Supports DOS, Win3.x, Win9x/NT/2000/Me/XP/2003/Vista and Windows 7, Netware, Unix/Linux
- Supports SVGA, VGA and multi-sync Monitors, resolutions up to 2048 x 1536 ; Bandwidth: 400MHz
- Auto scan mode for monitoring PCs
- Switch between PCs by press "Select" button or keyboard "Hot Key"
- Status LEDs give a clear indication of the active PC
- Buzzer sound for switching port confirmation



KVM CAT5 Extender

KVM-E500

- Use CAT5, CAT5e, or CAT6 Ethernet cable to connect Transmitter and Receiver units
- Extension distance is up to 500 feet (150M)
- The provided local and remote consoles allow users to perform the management nearby or faraway
- Administrator can control the local PC and remote servers in local console
- No software is required
- Compatible with DOS, Windows, Linux, Unix and Netware



Model	DKVM-1708 / DKVM-1716	KVM-800 / KVM-1600	IKVM-8000
Accessories	KVM-DCB-1.8/3/5 : 1.8/3/5 Meter 1-to-3 DKVM Combo Cable	USB-PS2 : USB to PS/2 Converter	USB-PS2 : USB to PS/2 Converter

IP Power Manager

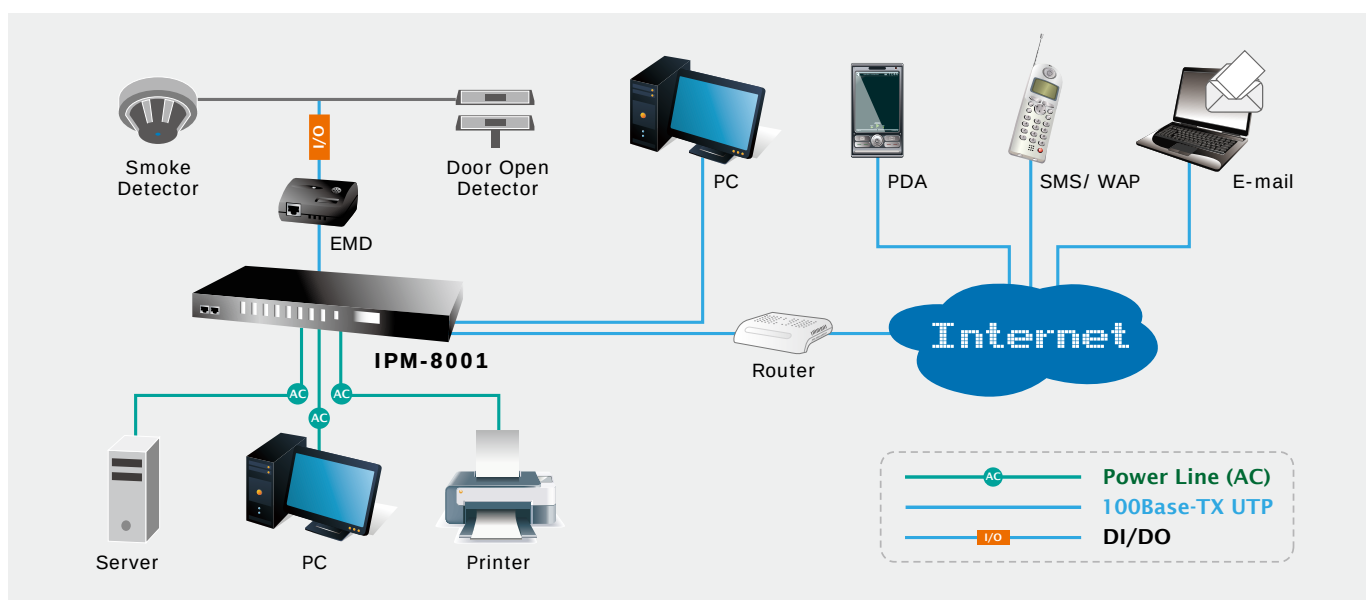
IP Power Manager

IPM-8001 / IPM-8002

- Eight power outlets that can be turned on or off in multiple ways, with easy monitoring of current consumption
- Activates extended devices via digital outputs
- Monitors and manages connected devices and sensors remotely
- Intelligent turn on/off devices based on event occurrence or planned schedule
- Comprehensive power management and flexible configuration through web browser, NMS, Telnet, SNMP, or HyperTerminal (console port)
- User-friendly interface to display input and output status
- Event notification through SNMP trap or Email alerts
- Daily history report through Email
- Supports SSL V3 and SSH V1 protocol
- Available in 100V, 220V and 240V models



Accessories	IPM-8001 / IPM-8002
IPM-EMD	Environmental Monitoring Device



Ethernet Adapter

Model	ENW-3504FC	ENW-9503/ ENW-9504	ENW-9605A	ENW-9700	ENW-9701	ENW-9800	ENW-9801	ENW-9802
Product Photo								
Attached Interface	32-Bit CardBus	32-Bit PCI 2.2	32-Bit PCI 2.2	x1 PCI Express	x1 PCI Express	PCI Express 1.1a	PCI Express 1.1a	PCI Express 1.1a
Network Interface	10/100 Base-TX	10/100 Base-TX	10/100/1000 Base-T	10/100/1000 Base-T	1000Base-X	10000Base-X	10000Base-X	10000Base-X
Media Interface	RJ-45	RJ-45	RJ-45	RJ-45	SFP	2xSFP+ (SFF-8431)	1xSFP+ (SFF-8431)	1xSFP+ / 1 x LX4
BootROM Socket	-	-	■	-	-	-	-	-
Wake on LAN	-	■ (ENW-9503)	■	■	-	-	-	-
OS Support	Windows 2000	■	■	■	■	■	■	■
	Windows XP	■	■	■	■	■	■	■
	Windows 2003	■	■	■	■	■	■	■
	Vista	■	■	■	■	■	■	■
	Linux	■	■	■	■	■	■	■

Online Support

PLANET's Global Website

PLANET's corporate website aimed at providing comprehensive, user-friendly, and interactive content with feature-rich resources. The site also demonstrates PLANET's commitment to excellence in a higher level of customer satisfaction.

The PLANET website features an innovative product knowledge database – a centralized resource area where worldwide users and our clients can gather information on latest products and solutions. The products and solutions database contain easily searchable product literature and download files on the improved interface, which help our clients easier to navigate. The solution section is specifically designed for the clients to access the related products efficiently on their specific application demands.

In this website, you can find the rich products and support information include:

- Hot & available product ad & edm
- Overview, application, features, spec
- Icon, product & color box photo
- New products rotate
- Top 5 FAQ listing
- Related products, FAQ, Support resources
- Solutions with link to related products

In addition, PLANET Partners Area is the dedicated Partners Website that provides our registered partners with rich resources of in-depth product and support details, sales and marketing tools, and worldwide success stories. This section will help our partners enhance expertise and thus expand profit opportunities.

We would like to invite you to view PLANET's Global Website via www.planet.com.tw, experience the latest online products information and solutions at any place, anytime.

Partner Area

PLANET Partners Area is the dedicated Partners Website that



provides our registered partners with rich resources of up-to-date product and support details, sales and marketing tools, and worldwide success stories. After applying for the registration to PLANET Partner Area, you can establish your relationship with PLANET and get the easy access to a number of useful tools and support resources that help you sell PLANET products and solutions for expanding your revenue opportunities.

Enjoy the benefits and key features of Partner Area shown as below:

Support and Downloads

- Take advantage of updates on the support and downloads information such as product specifications, photos, EC declaration, emulators, sales guides, datasheets, quickinstall guide, manuals, drivers, and utilities.
- Keep informed of the EOL (End-of-Life) product News.
- Access to our warranty policy.

Marketing Tools

- Product Marketing Tools: Offer a wide variety of product marketing materials selection, such as product guide, product portfolio, solution guides, product quick guides, product posters, and promotion CD
- Corporate Brand Tools: Provide useful tools to help you manage the brand promotions, including logo, slogans, company profile, global marketing kit, gifts, and certificates.

Success Story

In order to help you capture growing marketing opportunities, this area will deliver the case studies of successful reference sites, and share the global activities of advertisements, exhibitions events, press, & other results with our worldwide partners.

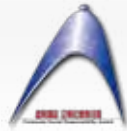
For more information about PLANET Website or Partner Area, please contact your regional sales representative, or email us at sales@planet.com.tw.

Awards

CSR (2007-2011)



Taiwan's Excellence in
Corporate Social Responsibility



Corporate Social Responsibility

Corporate Governance



Corporate Governance Certification

Editor's Choice



Taiwan Excellence Award



Best in Test



Best Choice



Best Buy



Best Product & Best Value



Buy This



Best Stability



Benchtest One



MIS Best Choice



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ADE-3400	85
ADE-3410	85
ADE-4400	85
ADN-4100	85
ADW-4401	85
ADN-4101	85
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ENW-9503	100
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ENW-9605A	100
ENW-9700	100
ENW-9701	100
ENW-9800	100
ENW-9801	100
ENW-9802	100
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EPN-102	90

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