

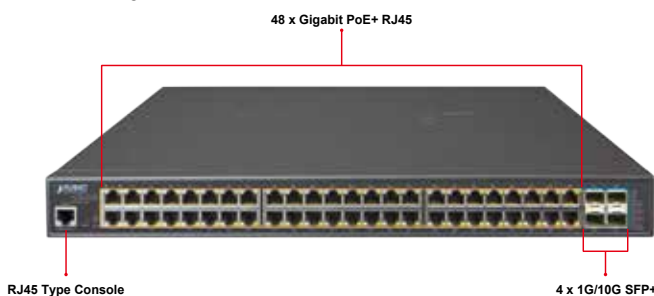
L2+ 48-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch



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

PLANET GS-5220-48P4X and GS-5220-48P4XR Layer 2+ Managed PoE Switches support both **IPv4 and IPv6 protocols**, and **hardware-based Layer 3 static routing** capability. They comply with **IEEE 802.3at Power over Ethernet Plus (PoE+)**, equipped with **48 10/100/1000BASE-T Gigabit Ethernet ports** and **4 10G SFP+ uplink slots**. All their **48 Gigabit Ethernet ports** when integrated with an 802.3at PoE+ injector can be in full operation.

The GS-5220-48P4X and GS-5220-48P4XR can handle extremely large amounts of data in a secure topology linking to deploying Power over Ethernet networks, data center/service provider backbone or high capacity servers. They can work with a 10Gbps SFP+ server adapter to help SMBs build the 10Gbps Ethernet network providing 10Gbps NAS (Network Attached Storage) or heavy transmission of video streaming service.



Redundant AC/DC Power Supply to Ensure Continuous Operation

The **GS-5220-48P4XR** is particularly equipped with one 100~240V AC power supply unit and one 36~60V DC power supply unit to provide an enhanced reliable and scalable redundant power supply. The continuous power system is specifically designed to fulfill the demands of high-tech facilities requiring the highest power integrity. With the 36~60V DC power supply, the GS-5220-48P4XR is able to act as a telecom-level device that can be located in the electronic room.



Physical Port

- 48 10/100/1000BASE-T Gigabit RJ45 copper ports with 48-port IEEE 802.3af/at PoE+ injector
- 4 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP
- RJ45 console interface for switch basic management and setup

Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet Plus/end-span PSE
- Backward compatible with IEEE 802.3af Power over Ethernet
- Up to 48 ports of IEEE 802.3af/IEEE 802.3at devices powered
- Supports PoE power up to 36 watts for each PoE port
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100 meters
- PoE management
 - Total PoE power budget control
 - Per port PoE function enable/disable
 - PoE admin-mode control
 - PoE port power feeding priority
 - Per PoE port power limitation
 - PD classification detection
 - Temperature threshold control
 - PD alive check
 - PoE schedule

Layer 2 Features

- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
- High performance of Store-and-Forward architecture and runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- Storm Control support
 - Broadcast/Multicast/Unknown unicast
- Supports VLAN
 - IEEE 802.1Q tagged VLAN
 - Up to 255 VLANs groups, out of 4094 VLAN IDs
 - Supports provider bridging (VLAN Q-in-Q, IEEE 802.1ad)
 - Protocol-based VLAN
 - MAC-based VLAN
 - Voice VLAN

Convenient and Smart ONVIF Devices with Detection Feature

PLANET has newly developed an awesome feature -- ONVIF Support -- which is specifically designed for co-operating with Video IP Surveillances. From the GS-5220-48P4X and GS-5220-48P4XR GUI, clients just need one click to search and show all of the ONVIF devices via network application. In addition, clients can upload floor images into switch and allows for deploying location of surveillance devices for easier inspection and planning. Moreover, clients can get real-time surveillance's information and online/offline status, and also allows PoE reboot control from GUI.



Cost-effective 10Gbps Uplink for Large Surveillance Applications

The GS-5220-48P4X and GS-5220-48P4XR provide IPv6/IPv4 management and built-in L2/L4 Gigabit Switching engine along with 48 10/100/1000BASE-T ports featuring 36-watt 802.3at PoE+, and 4 10Gbps SFP+ fiber slots. With a total power budget of up to 400W for different kinds of PoE applications, the switches provide a quick, safe and cost-effective Power over Ethernet network solution to IP security surveillance for small businesses and enterprises.

Flexible and Extendable 10Gbps Ethernet Solution

10Gbps Ethernet is a big leap in the evolution of Ethernet. Each of the SFP+ slot supports dual speed and 10GBASE-SR/LR, meaning the administrator now can flexibly choose the suitable SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently. With its 4-port, 10Gbps Ethernet link capability, the GS-5220-48P4X and GS-5220-48P4XR provide broad bandwidth and powerful processing capacity.

Centralized Power Management for Gigabit Ethernet PoE Networking

To fulfill the needs of higher power required PoE network applications with Gigabit speed transmission, the GS-5220-48P4X and GS-5220-48P4XR feature IEEE 802.3at PoE+ that combines up to 36 watts of power output and data per port over one Cat5E/6 Ethernet cable. It is designed specifically to meet the demand of higher power consuming network PD (powered device) such as IR, PTZ, speed dome cameras or even box-type IP camera with a built-in fan and heater. Compliant with both 802.3at and 802.3af PoE, they allow more flexibility in power requirement for a variety of PDs.

Built-in Unique PoE Functions for Surveillance Management

As a managed PoE Switch for surveillance network, the GS-5220-48P4X and GS-5220-48P4XR feature four special PoE management functions:

- PD alive check
- Scheduled power recycling
- PoE schedule
- PoE usage monitoring

- Supports Spanning Tree Protocol
 - IEEE 802.1D Spanning Tree Protocol
 - IEEE 802.1w Rapid Spanning Tree Protocol
 - IEEE 802.1s Multiple Spanning Tree Protocol, spanning tree by VLAN
 - BPDU Guard
- Supports Link Aggregation
 - 802.3ad Link Aggregation Control Protocol (LACP)
 - Cisco ether-channel (static trunk)
 - Maximum 26 trunk groups with 4 ports for each trunk group
 - Up to 80Gbps bandwidth (full duplex mode)
- Provides port mirror (many-to-1)
- Port mirroring to monitor the incoming or outgoing traffic on a particular port
- Loop protection to avoid broadcast loops

Layer 3 Features

- IP interfaces (Max. 8 VLAN interfaces)
- Routing table (Max. 32 routing entries)
- Routing Protocols (IPv4/IPv6 software static routing)

Quality of Service

- Ingress Shaper and Egress Rate Limit per port bandwidth control
- 8 priority queues on all switch ports
- Traffic classification
 - IEEE 802.1p CoS
 - TOS/DSCP/IP precedence of IPv4/IPv6 packets
 - IP TCP/UDP port number
 - Typical network application
- Strict priority and Weighted Round Robin (WRR) CoS policies
- Supports QoS and In/Out bandwidth control on each port
- Traffic-policing on the switch port
- DSCP remarking

Multicast

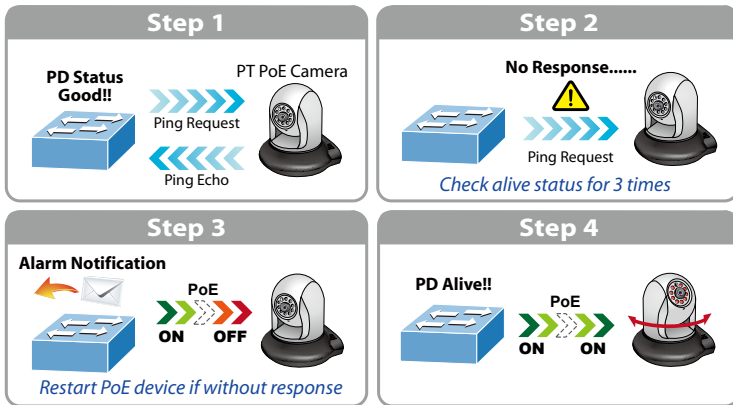
- Supports IGMP snooping v1, v2 and v3
- Supports MLD snooping v1 and v2
- Querier mode support
- IGMP snooping port filtering
- MLD snooping port filtering
- Multicast VLAN Registration (MVR) support

Security

- Authentication
 - IEEE 802.1x port-based/MAC-based network access authentication
 - Built-in RADIUS client to cooperate with the RADIUS servers

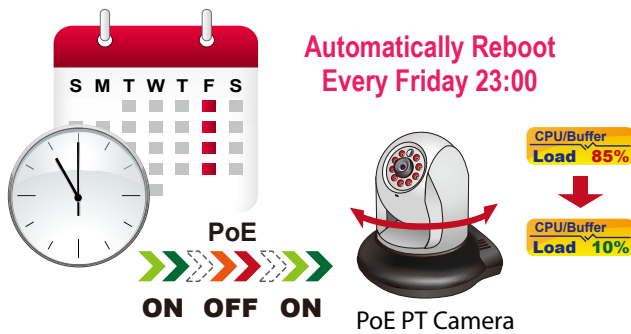
Intelligent Powered Device Alive Check

The GS-5220-48P4X and GS-5220-48P4XR can be configured to monitor connected PD status in real time via ping action. Once the PD stops working and has no response, the GS-5220-48P4X and GS-5220-48P4XR will resume the PoE port power and bring the PD back to work. It will greatly enhance the network reliability through the PoE port resetting the PD's power source and reduce administrator management burden.



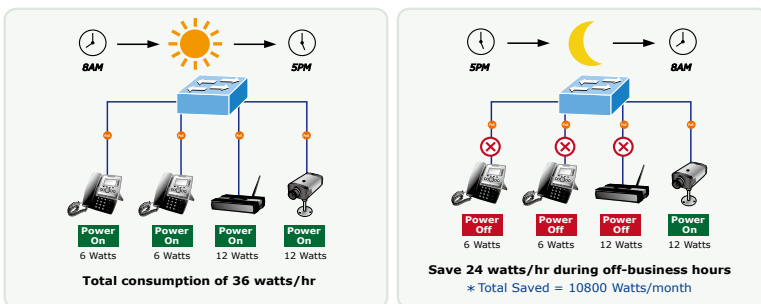
Scheduled Power Recycling

The GS-5220-48P4X and GS-5220-48P4XR allow each of the connected PoE IP cameras to reboot at a specific time each week. Therefore, it will reduce the chance of IP camera crash resulting from buffer overflow.



PoE Schedule for Energy Saving

Besides IP surveillance, the GS-5220-48P4X and GS-5220-48P4XR are certainly applicable to construct any PoE network including VoIP and wireless LAN. Under the trend of energy saving worldwide and contributing to environment protection on the Earth, the GS-5220-48P4X and GS-5220-48P4XR can effectively control the power supply besides its capability of giving high watts power. The "PoE schedule" function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMBs or enterprises save power and money.



1000Base-T UTP with PoE

- TACACS+ login users access authentication
- RADIUS/TACACS+ users access authentication
- Access Control List
 - IP-based Access Control List (ACL)
 - MAC-based Access Control List
- Source MAC/IP address binding
- DHCP Snooping to filter untrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- IP Source Guard prevents IP spoofing attacks
- IP address access management to prevent unauthorized intruder

Management

- IPv4 and IPv6 dual stack management
- Switch Management Interfaces
 - Console/Telnet Command Line Interface
 - Web switch management
 - SNMP v1, v2c, and v3 switch management
 - SSH/SSL secure access
- IPv6 IP address/NTP/DNS management
- Built-in Trivial File Transfer Protocol (TFTP) client
- BOOTP and DHCP for IP address assignment
- System Maintenance
 - Firmware upload/download via HTTP/TFTP
 - Reset button for system reboot or reset to factory default
 - Dual images
- DHCP Relay
- DHCP Option 82
- User Privilege levels control
- NTP (Network Time Protocol)
- Link Layer Discovery Protocol (LLDP) and LLDP-MED
- Network Diagnostic
 - ICMPv6/ICMPv4 remote ping
 - Cable diagnostic technology provides the mechanism to detect and report potential cabling issues
- SMTP/Syslog remote alarm
- Four RMON groups (history, statistics, alarms and events)
- SNMP trap for interface Link Up and Link Down notification
- System Log
- PLANET Smart Discovery Utility for deployment management
- Smart fan with speed control

Redundant Power System (GS-5220-48P4XR)

- Redundant 100~240V AC/36-60V DC dual power
- Active-active redundant power failure protection
- Backup of catastrophic power failure on one supply
- Fault tolerance and resilience

IPv4 and IPv6 VLAN Routing for Secure and Flexible Management

To help customer stay on top of business, the GS-5220-48P4X and GS-5220-48P4XR not only offer ultra high transmission performance, but also IPv4/IPv6 VLAN routing feature which allows to cross over different VLAN groups and IP addresses for the purpose of having a highly-secure, flexible management.

Robust Layer 2 Features

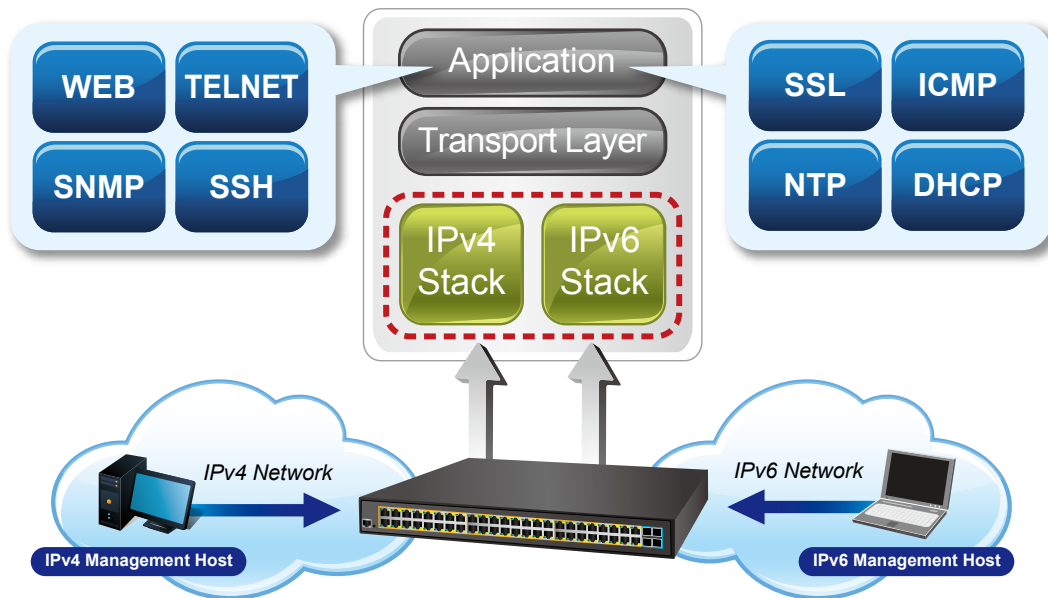
The GS-5220-48P4X and GS-5220-48P4XR can be programmed for advanced switch management functions such as dynamic port link aggregation, **Q-in-Q VLAN**, private VLAN, **Multiple Spanning Tree Protocol (MSTP)**, Layer 2/4 QoS, bandwidth control and **IGMP/MLD snooping**. The GS-5220-48P4X and GS-5220-48P4XR provide 802.1Q tagged VLAN, and the VLAN groups allowed will be maximally up to 256. Via aggregation of supporting ports, the GS-5220-48P4X and GS-5220-48P4XR allow the operation of a high-speed trunk combining multiple ports. The switch enables a maximum of up to 26 trunk groups with 4 ports for each trunk group and supports connection fail-over as well.

Enhanced Security

The GS-5220-48P4X and GS-5220-48P4XR offer comprehensive **Layer 2 to Layer 4 Access Control List (ACL)** for enforcing security to the edge. It can be used to restrict network access by denying packets based on source and destination IP address, TCP/UDP ports or defined typical network application. Their protection mechanism also comprises **802.1x Port-based** and **MAC-based** customer and device authentication. As to **private VLAN** function, communications between edge ports can be protected to ensure customer privacy. The GS-5220-48P4X and GS-5220-48P4XR also provide functions of **DHCP snooping**, **IP source guard** and **dynamic ARP inspection** so as to prevent IP from attacking and discarding ARP packets with invalid MAC address. The network administrators can now construct a highly-secure corporate network with considerably less time and effort than before.

IPv6/IPv4 Dual Stack

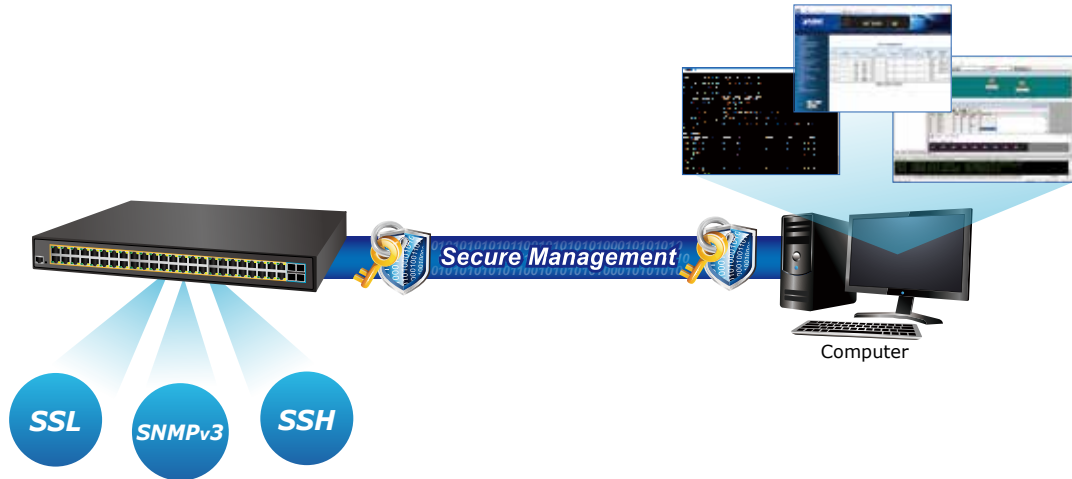
As the GS-5220-48P4X and GS-5220-48P4XR support the IPv6 Protocol, they help SMBs and enterprises to step in the IPv6 era with the lowest investment, meaning the existing network facilities need not be replaced.



Efficient and Secure Management

For efficient management, the GS-5220-48P4X and GS-5220-48P4XR are equipped with console, Web and SNMP management interfaces. With the built-in Web-based management interface, the GS-5220-48P4X and GS-5220-48P4XR offer an easy-to-use, platform-independent management and configuration facility. The GS-5220-48P4X and GS-5220-48P4XR support standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software. For text-based management, the GS-5220-48P4X and GS-5220-48P4XR can be accessed via Telnet and the console port. Moreover, the GS-5220-48P4X and GS-5220-48P4XR offer secure remote management by supporting SSH, SSL and SNMP v3 connection which encrypt the packet content at each session.

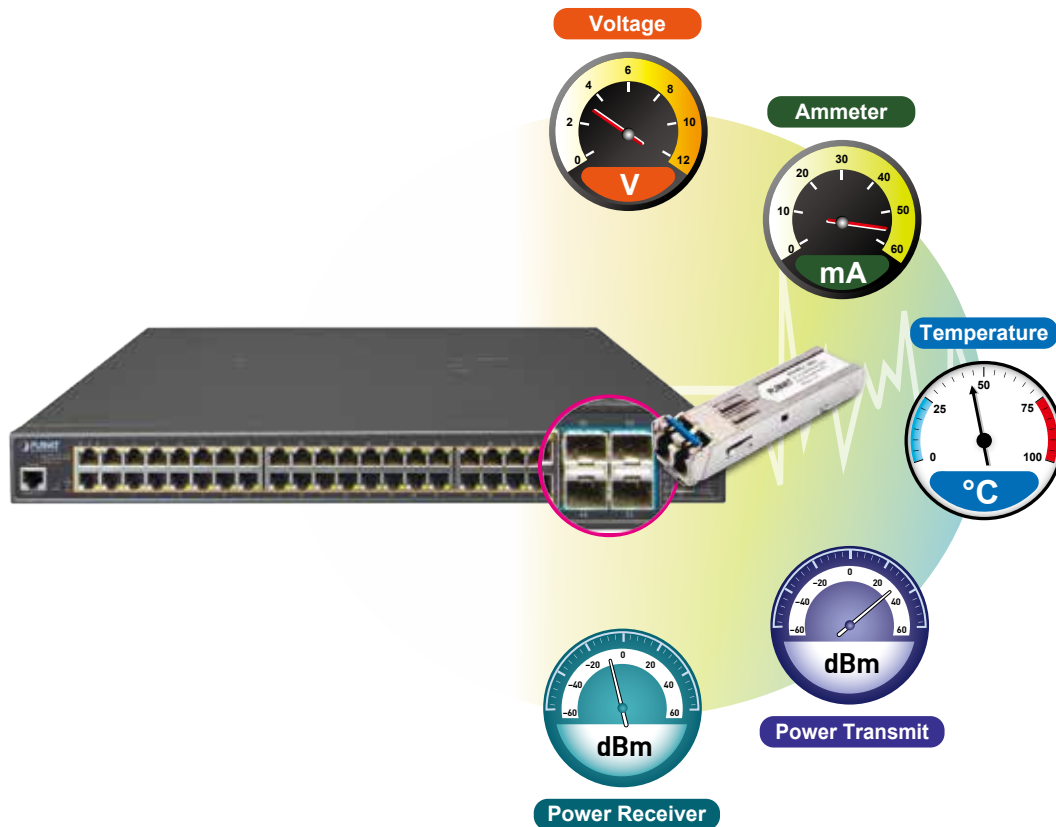
More and more engineers or administrators use Cisco command to manage Ethernet switch. For reducing product learning time, the GS-5220-48P4X and GS-5220-48P4XR offer Cisco-like command and customers do not need to learn new command. With easy and friendly management interfaces, and plenty of management functions included, the GS-5220-48P4X and GS-5220-48P4XR are the best choices for ISPs to build the IPv6 FTTx edge service and for SMBs to connect with the IPv6 network.



Intelligent SFP Diagnosis Mechanism

The GS-5220-48P4X and GS-5220-48P4XR support SFP-DDM (Digital Diagnostic Monitor) function that greatly helps network administrator to easily monitor real-time parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

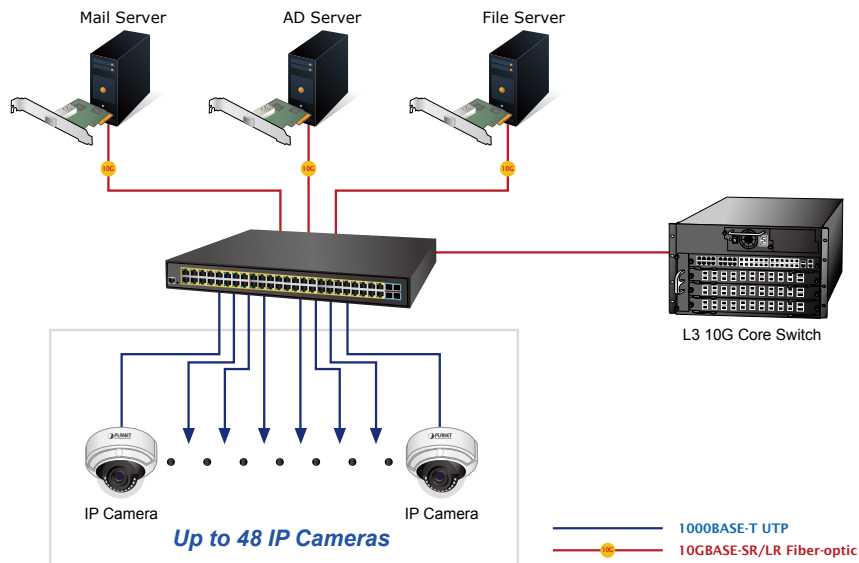
Digital Diagnostic Monitor (DDM)



Applications

Excellent 10Gbps High Bandwidth and PoE Application to Core Network

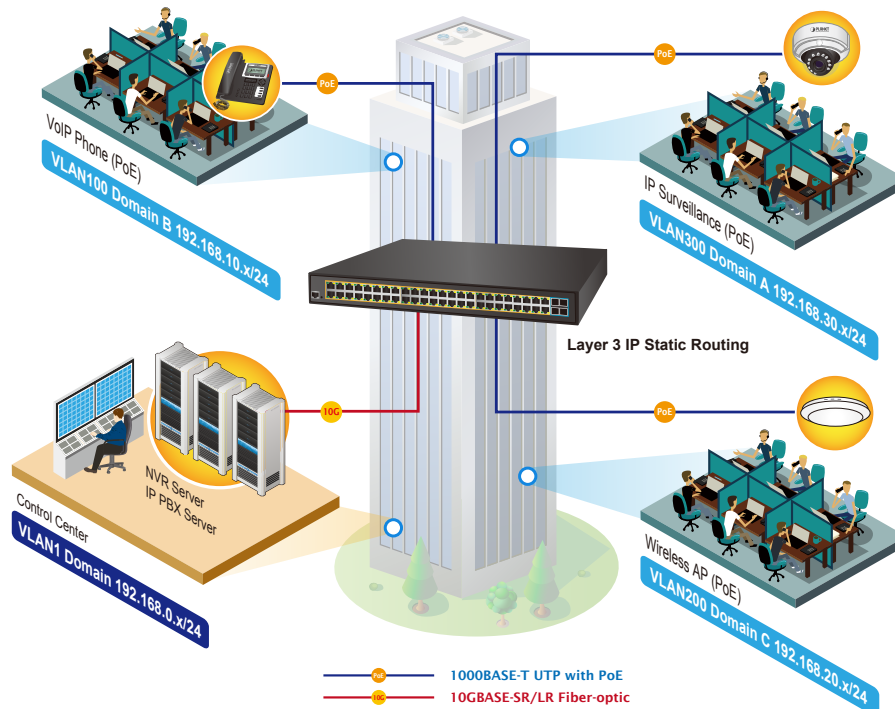
Providing up to 48 PoE+, in-line power interfaces and four 10 SFP+ interfaces, the GS-5220-48P4X and GS-5220-48P4XR can easily build a power for IP camera system centrally controlled by the enterprise. They can work with 8-/16-/32-channel NVR and surveillance software to perform comprehensive security monitoring. For instance, the PoE switch can combine with one 32-channel NVR and one 8-channel NVR; that is, each of its PoE ports can link to a specific PoE IP camera for the administrator to efficiently manage the surveillance system on one site. With the four built-in SFP+ ports, the GS-5220-48P4X and GS-5220-48P4XR provide the uplink to the backbone network through the 10G Ethernet SR/LR SFP+ modules. They further improve the network efficiency and protect the network clients by offering the security and QoS features.



Layer 2+ VLAN Static Routing and PoE Application

The GS-5220-48P4X and GS-5220-48P4XR feature IEEE 802.3at PoE+ that combines up to 36-watt power output per port, and PoE budget is up to 400 watts which can deploy up to 48 PoE PD devices. With the built-in robust IPv4/IPv6 Layer 3 traffic routing protocol, the GS-5220-48P4X and GS-5220-48P4XR ensure reliable routing between VLANs and network segments. The routing protocols can be applied by VLAN interface with up to 32 routing entries. The GS-5220-48P4X and GS-5220-48P4XR are certainly a cost-effective and ideal solution for enterprises.

VLAN Routing + PoE Applications



Specifications

Product	GS-5220-48P4X	GS-5220-48P4XR
Hardware Specifications		
Copper Ports	48 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports	
SFP+ Slots	4 10GBASE-SR/LR SFP+ interfaces (Port-49 to Port-52) Compatible with 1000BASE-SX/LX/BX SFP transceiver	
Console	1 x RS232-to-RJ45 serial port (115200, 8, N, 1)	
Switch Architecture	Store-and-Forward	
Switch Fabric	176Gbps/non-blocking	
Throughput	130Mpps@64Bytes	
Address Table	16K entries, automatic source address learning and aging	
Shared Data Buffer	32M bits	
Flow Control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex	
Jumbo Frame	10K bytes	
Reset Button	< 5 sec: System reboot > 5 sec: Factory default	
Dimensions (W x D x H)	440 x 300 x 44.5 mm, 1 height	
Weight	4950g	4955g
LED	System: SYS (Green) AC/PWR (Green) DC (Green) (GS-5220-48P4XR Only) Fan1/2/3 Alert (Red) PoE PWR Alert (Red) PoE Ethernet Interfaces (Port-1 to Port-48): PoE In-use (Orange) Ethernet Interfaces (Port-1 to Port-48): 1000 LNK/ACT (Green), 10/100 LNK/ACT (Orange) 1/10G SFP+ Interfaces (Port-49 to Port-52): 1G (Green), 10G (Orange)	
Power Consumption	Max. 461 watts/1582 BTU	AC: Max. 461 watts/11582 BTU DC: Max. 36.6 watts/124.88 BTU
Power Requirements – AC	AC 100~240V, 50/60Hz, 7A	AC 100~240V, 50/60Hz, 7A
Power Requirements – DC	--	DC 36~60V, 2A
ESD Protection	6KV DC	
Fan	3 smart fans	
Power over Ethernet		
PoE Standard	IEEE 802.3af/802.3at PoE PSE	
PoE Power Supply Type	End-span	
PoE Power Output	Per port 54V DC, 36 watts (max.)	
Power Pin Assignment	End-span: 1/2(+), 3/6(-)	
PoE Power Budget	400 watts (max.)	
PoE Ability PD @ 7 watts	48 units	
PoE Ability PD @ 15 watts	26 units	
PoE Ability PD @ 30 watts	13 units	
Layer 2 Management Functions		
Port Configuration	Port disable/enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow control disable/enable	
Port Status	Display each port's speed duplex mode, link status, flow control status, auto-negotiation status, trunk status	
Port Mirroring	TX/RX/Both Many-to-1 monitor	
VLAN	802.1Q tagged based VLAN Q-in-Q tunneling Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN registration) Up to 255 VLAN groups, out of 4095 VLAN IDs	
Link Aggregation	IEEE 802.3ad LACP/static trunk 26 groups with 4 port per trunk	

Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	
QoS	Traffic classification based, strict priority and WRR 8-level priority for switching: - Port number - 802.1p priority - 802.1Q VLAN tag - DSCP/ToS field in IP packet	
IGMP Snooping	IGMP (v1/v2/v3) snooping, up to 255 multicast groups IGMP querier mode support	
MLD Snooping	MLD (v1/v2) snooping, up to 255 multicast groups MLD querier mode support	
Access Control List	IP-based ACL/MAC-based ACL Up to 256 entries	
Bandwidth Control	Per port bandwidth control Ingress: 100Kbps~1000Mbps Egress: 100Kbps~1000Mbps	
Layer 3 Function		
IP Interfaces	Max. 8 VLAN interfaces	
Routing Table	Max. 32 routing entries	
Routing Protocols	IPv4 software static routing IPv6 software static routing	
Management		
Basic Management Interfaces	Console; Telnet; Web browser; SNMP v1, v2c	
Secure Management Interfaces	SSH, SSL, SNMP v3	
SNMP MIBs	RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2665 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB RFC 2618 RADIUS Client MIB	RFC 2863 IF-MIB RFC 2933 IGMP-STD-MIB RFC 3411 SNMP-Frameworks-MIB RFC 4292 IP Forward MIB RFC 4293 IP MIB RFC 4836 MAU-MIB IEEE 802.1X PAE LLDP
Standards Conformance		
Regulatory Compliance	FCC Part 15 Class A, CE	
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000T IEEE 802.3ae 10Gb/s Ethernet IEEE 802.3x flow control and back pressure IEEE 802.3ad port trunk with LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1Q VLAN tagging IEEE 802.1x Port Authentication Network Control	IEEE 802.1ab LLDP IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 RFC 3810 MLD v2
Environment		
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)	
Storage	Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)	

Ordering Information

GS-5220-48P4X	L2+ 48-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch
GS-5220-48P4XR	L2+ 48-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch with system redundant power

Related Products

GS-5220-48PL4X	L2+ 48-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch
GS-5220-48PL4XR	L2+ 48-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch with redundant power
GS-5220-24P4X	L2+ 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch
GS-5220-24P4XR	L2+ 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch with redundant power
GS-5220-24PL4X	L2+ 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch
GS-5220-24PL4XR	L2+ 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch with redundant power

Available 10Gbps Modules

CB-DASFP-0.5M	10G SFP+ Directly-attached Copper Cable (0.5m in length)
CB-DASFP-2M	10G SFP+ Directly-attached Copper Cable (2m in length)
MTB-SR	10GBASE-SR mini-GBIC module - 300m
MTB-LR	10GBASE-LR mini-GBIC module - 10km
MTB-LA20	10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 20km
MTB-LB20	10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 20km
MTB-LA40	10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 40km
MTB-LB40	10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 40km
MTB-LA60	10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 60km
MTB-LB60	10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 60km

Available 1000Mbps Modules

MGB-GT	SFP-Port 1000BASE-T Module
MGB-SX	SFP-Port 1000BASE-SX mini-GBIC module - 220/550m
MGB-LX	SFP-Port 1000BASE-LX mini-GBIC module - 10km
MGB-L30	SFP-Port 1000BASE-LX mini-GBIC module - 30km
MGB-L50	SFP-Port 1000BASE-LX mini-GBIC module - 50km
MGB-L70	SFP-Port 1000BASE-LX mini-GBIC module - 70km
MGB-L120	SFP-Port 1000BASE-LX mini-GBIC module - 120km
MGB-LA10	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 10km
MGB-LB10	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 10km
MGB-LA20	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 20km
MGB-LB20	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 20km
MGB-LA40	SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 40km
MGB-LB40	SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 40km

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GS-5220-48P4X/GS-5220-48P4XR