



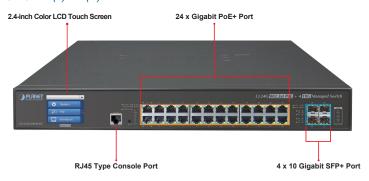
L3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch with LCD Touch Screen



Amazing Ultra PoE Managed Switches with Layer 3 Switching and Security

PLANET GS-5220-24P(L)4XV(R) PoE Series of cost-optimized, **1.25U**, Gigabit PoE Managed Switches with LCD Touch Screen features PLANET **intelligent PoE** functions to improve the availability of critical business applications. They provide IPv6/IPv4 dual stack management and built-in **Layer 3 OSPF/static routing** Gigabit switching along with 24 10/100/1000BASE-T ports featuring **36-watt PoE+ and 4 additional 10Gigabit SFP+ ports**. With a total power budget of up to 400/600 watts for different kinds of PoE applications, the GS-5220-24P(L)4XV(R) PoE Series with LCD Touch Screen provides a quick, safe and cost-effective PoE network solution for small businesses and enterprises.

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



Smart and Intuitive LCD Control

PLANET unique **Smart LCD PoE Switches** provide intuitive touch panel on its front panel that facilitates the Ethernet management and PoE PD management. They greatly promote management efficiency in large-scale network, such as enterprises, hotels, shopping malls, government buildings and other public areas, and feature the following special management and status functions:

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

Physical Port

- 24 10/100/1000BASE-T Gigabit RJ45 copper ports with 24port IEEE 802.3af/at PoE+ injector
- 4 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-X and 2500BASE-X SFP
- RJ45 console interface for switch basic management and setup

Power over Ethernet Plus

- Complies with IEEE 802.3at Power over Ethernet Plus/endspan PSE
- Backward compatible with IEEE 802.3af Power over Ethernet
- Up to 24 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
 - PoE extend mode control to support power feeding up to a distance of up to 200 meters
- · Intelligent PoE features
 - Temperature threshold control
 - PD alive check
 - PoE schedule
 - PD scheduled power-recycle

Layer 3 Features

- · Supports maximum 128 static routes and route summarization
- IP dynamic routing protocol supports OSPFv2
- · Routing interface provides per VLAN routing mode

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







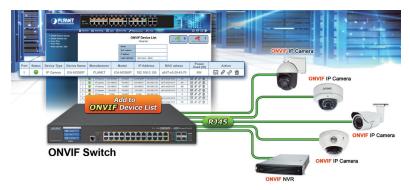






Convenient and Smart ONVIF Devices with Detection Feature

PLANET has newly developed an awesome feature -- ONVIF Support -- which is specifically designed for co-operating with Video IP Surveillances. From the GS-5220-24P(L)4XV(R) PoE Series with the LCD Touch Screen 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 to the switch series, making the deployments of surveillance and other devices easy for planning and inspection purposes. Moreover, clients can get real-time surveillance's information and online/offline status. They allow PoE reboot control from the GUI.





- IEEE 802.1Q tagged VLAN
- Supports provider bridging (VLAN Q-in-Q, IEEE 802.1ad)
- Private VLAN Edge (PVE)
- Protocol-based VLAN
- MAC-based VLAN
- Voice VLAN
- · 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 14 trunk groups, up to 4 ports per trunk group
- 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
- Supports ERPS (Ethernet Ring Protection Switching)
- Compatible with Cisco uni-directional link detection(UDLD) that monitors a link between two switches and blocks the ports on both ends of the link if the link fails at any point between the two devices
- Link Layer Discovery Protocol (LLDP)

Multicast

- Supports IPv4 IGMP snooping v1, v2 and v3
- Supports IPv6 MLD snooping v1 and v2
- · Querier mode support
- · IPv4 IGMP snooping port filtering
- · IPv6 MLD snooping port filtering
- · Multicast VLAN Registration (MVR) support

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

Security

- Authentication
 - IEEE 802.1x port-based/MAC-based network access authentication



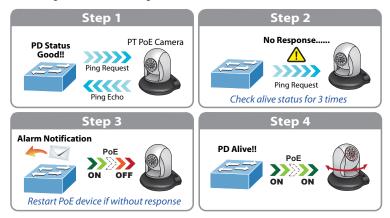
Built-in Unique PoE Functions for Powered Devices Management

Being the managed PoE switches for surveillance, wireless and VoIP networks, the GS-5220-24P(L)4XV(R) PoE Series with LCD Touch Screen feature the following special PoE management functions:

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

Intelligent Powered Device Alive Check

The GS-5220-24P(L)4XV(R) PoE Series with LCD Touch Screen can be configured to monitor connected PD (powered device) status in real time via ping action. Once the PD stops working and responding, the GS-5220-24P(L)4XV(R) PoE Series with LCD Touch Screen will resume the PoE port power and bring the PD back to work. They will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing administrator management burden.



Scheduled Power Recycling

The GS-5220-24P(L)4XV(R) PoE Series allows each of the connected PoE IP cameras or PoE wireless access points to reboot at a specified time each week. Therefore, they will reduce the chance of IP camera or AP crash resulting from buffer overflow.



PoE Schedule for Energy Saving

Under the trend of energy saving worldwide and contributing to environmental protection, the GS-5220-24P(L)4XV(R) PoE Series can effectively control the power supply besides their 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. It also increases security by powering off PDs that should not be in use during non-business hours.

- Built-in RADIUS client to cooperate with the RADIUS servers
- 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

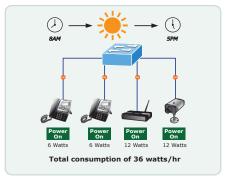
Management

- · IPv4 and IPv6 dual stack management
- · Switch Management Interfaces
 - Console/Telnet Command Line Interface
 - Web switch management
 - SNMP v1 and v2c switch management
 - SSHv2, TLS v1.2 and SNMPv3 secure access
 - 2.4-inch color LCD touch screen
- SNMP Management
 - Four RMON groups (history, statistics, alarms and events)
 - SNMP trap for interface Link Up and Link Down notification
- 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)
- Network Diagnostic
 - SFP-DDM (Digital Diagnostic Monitor)
 - ICMPv6/ICMPv4 remote ping
 - Cable diagnostic technology provides the mechanism to detect and report potential cabling issues
- SMTP/Syslog remote alarm
- System Log
- PLANET Smart Discovery Utility for deployment management
- Smart fan with speed control

Redundant Power System (GS-5220-24P(L)4XVR)

- 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







PoE Usage Monitoring

Via the power usage chart in the web management interface, the GS-5220-24P(L)4XV(R) PoE Series enables the administrator to monitor the status of the power usage of the connected PDs in real time. Thus, they greatly enhance the management efficiency of the facilities.

Layer 3 Routing Support

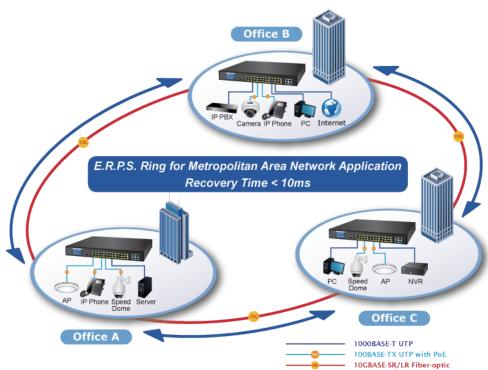
The GS-5220-24P(L)4XV(R) PoE Series enables the administrator to conveniently boost network efficiency by configuring Layer 3 IPv4/IPv6 VLAN static routing manually, and the **OSPFv2** (Open Shortest Path First) settings automatically. The OSPF is an interior dynamic routing protocol for autonomous system based on link state. The protocol creates a database for link state by exchanging link states among Layer 3 switches, and then uses the Shortest Path First algorithm to generate a route table based on that database.

Network with Cyber Security Helps Minimize Security Risks

The GS-5220-24P(L)4XV(R) PoE Series comes with enhanced cyber security to fend off cyber threats and cyber attacks. It supports SSHv2 and TLSv1.2 protocols to provide strong protection against advanced threats. Served as a key point to transmit data to customer's critical equipment in a business network, the cyber security feature of the GS-5220-24P(L)4XV(R) PoE Series protects the switch management and enhances the security of the mission-critical network without any extra deployment cost and effort.

Redundant Ring, Fast Recovery for Critical Network Applications

The GS-5220-24P(L)4XV(R) PoE Series supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced **ITU-T G.8032 ERPS (Ethernet Ring Protection Switching)** technology, Spanning Tree Protocol (802.1s MSTP), and **redundant power** input system into customer's industrial automation network to enhance system reliability and uptime in harsh factory environments. In a certain simple Ring network, the recovery time of data link can be as fast as 10ms.





Cost-effective 10Gbps Uplink Capacity

10G Ethernet is a big leap in the evolution of Ethernet. The four 10G SFP+ slots of the GS-5220-24P(L)4XV(R) PoE Series support dual-speed 10GBASE-SR/LR or 1000BASE-SX/LX, meaning the administrator now can flexibly choose the suitable SFP/SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently. They greatly support SMB network to achieve the maximum performance of 10Gbps in a cost-effective way.

Redundant AC/DC Power Supply to Ensure Continuous Operation

The GS-5220-24P(L)4XVR 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-5220-24P(L)4XVR are able to act as a telecom-level device that can be located in the electronic room.

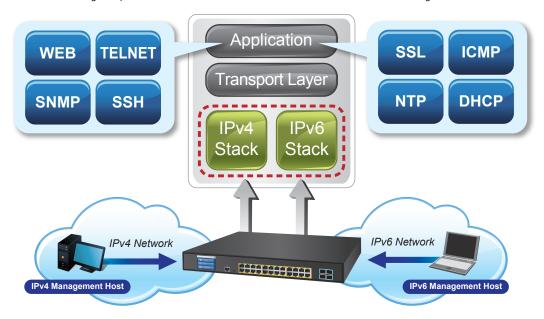


Environment-friendly, Smart Fan Design for Silent Operation

The GS-5220-24P(L)4XV(R) PoE Series features a 19-inch metal housing, a low noise design and an effective ventilation system. They support the smart fan technology that automatically controls the speed of the built-in fan to reduce noise and maintain the temperature of the PoE switch for optimal power output capability. It is able to operate reliably, stably and quietly in any environment without affecting its performance.

Solution for IPv6 Networking

By supporting IPv6/IPv4 dual stack and plenty of management functions with easy and friendly user interfaces, the GS-5220-24P(L)4XV(R) PoE Series is the best choice for IP surveillance, VoIP and wireless service providers to deploy the IPv6 network. They also help the SMBs to step in the IPv6 era with the lowest investment and without having to replace the network facilities while the ISPs construct the IPv6 FTTx edge network.





Robust Layer 2 Features

The GS-5220-24P(L)4XV(R) PoE Series can be programmed for advanced switch management functions, such as dynamic port link aggregation, Q-in-Q VLAN, Multiple Spanning Tree Protocol (MSTP), Layer 2/4 QoS, bandwidth control and IGMP/MLD snooping. It allows the operation of a high-speed trunk combining with multiple ports.



Powerful Security

The GS-5220-24P(L)4XV(R) PoE Series offers a comprehensive Layer 2 to Layer 4 access control list (ACL) for enforcing security to the edge. It can be used to restrict to network access by denying packets based on source and destination IP address, TCP/UDP port number or defined typical network applications. Its protection mechanism also comprises 802.1x Port-based and MAC-based user and device authentication. With the private VLAN function, communication between edge ports can be prevented to ensure user privacy.

Enhanced Security and Traffic Control

The GS-5220-24P(L)4XV(R) PoE Series also provides **DHCP Snooping**, **IP Source Guard** and **Dynamic ARP Inspection** functions to prevent IP snooping from attack and discard ARP packets with invalid MAC address. The network administrator can now construct highly-secure corporate networks with considerably less time and effort than before.

User-friendly Secure Management

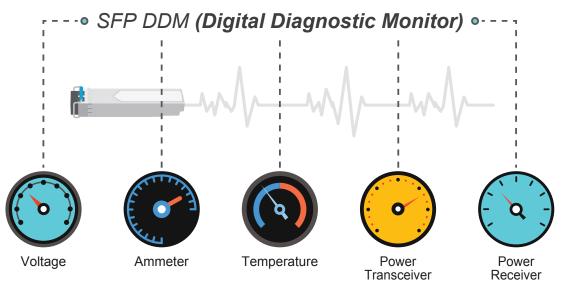
For efficient management, the GS-5220-24P(L)4XV(R) PoE Series is equipped with console, web and SNMP management interfaces. With the built-in web-based management interface, it offers an easy-to-use, platform independent management and configuration facility. It supports SNMP and it can be managed via any management software based on the standard SNMP v1 or v2 Protocol. For reducing product learning time, the GS-5220-24P(L)4XV(R) PoE Series offers Cisco-like command via Telnet or console port and customer doesn't need to learn new command from these switches. Moreover, it offers the remotely secure management by supporting SSHv2, TLSv1.2 and SNMP v3 connection where the packet content can be encrypted at each session.





Intelligent SFP/SFP+ Diagnosis Mechanism

The GS-5220-24P(L)4XV(R) PoE Series supports **SFP-DDM** (**Digital Diagnostic Monitor**) function that greatly helps network administrator to easily monitor real-time parameters of the SFP and SFP+ transceivers, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

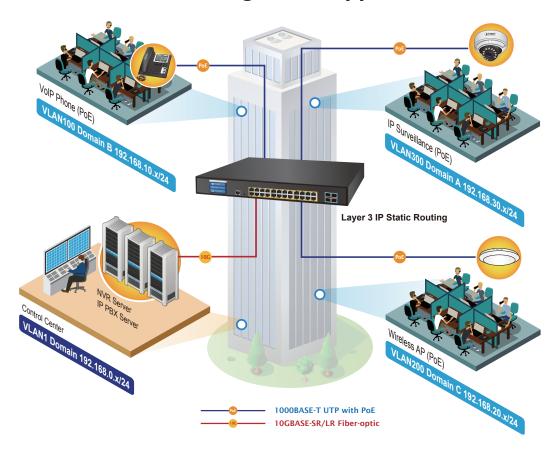


Applications

Layer 3 VLAN Static Routing and PoE Application

The GS-5220-24P(L)4XV(R) PoE Series features PoE that combines up to 36-watt power output per port, and PoE budget is up to 400/600 watts which can deploy up to 24 PoE PD devices. With the built-in robust IPv4/IPv6 Layer 3 traffic routing protocol, the GS-5220-24P(L)4XV(R) PoE Series ensures reliable routing between VLANs and network segments. The routing protocols can be applied by VLAN interface with up to 128 routing entries. It is certainly a cost-effective and ideal solution for enterprises.

VLAN Routing + PoE Applications





Specifications

Product	GS-5220-24P4XV	GS-5220-24PL4XVR	
Hardware Specifications			
Hardware Version	2		
Copper Ports	24 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports		
SFP+ Slots	·	4 10GBASE-SR/LR SFP+ interfaces (Port-25 to Port-28) Compatible with 1000BASE-X and 2500BASE-X SFP transceiver	
Console	1 x RS232-to-RJ45 serial port (115200, 8, N, 1)		
DRAM	512Mbytes		
-lash	64Mbytes		
	< 5 sec: System reboot		
Reset Button	> 5 sec: Factory default		
Dimensions (W x D x H)	440 x 300 x 56 mm, 1.25U height		
Copper Ports	8 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports		
Weight	4635g	5439g	
Power Requirements – AC	AC 100~240V, 50/60Hz, 7A	AC 100~240V, 50/60Hz, 8A	
Power Requirements – DC		DC 36~60V, 2A	
ESD Protection	6KV DC	,	
-an	3 smart fans		
	System:		
LED	SYS (Green), AC/PWR (Green) DC (Green) (GS-5220-24P(L)4XVR) Ring (Green) Fan1/2/3 Alert (Red), PoE PWR Alert (Red) PoE Ethernet Interfaces (Port-1 to Port-24): PoE-in-use (Orange) Ethernet Interfaces (Port-1 to Port-24): 1000 LNK/ACT (Green), 10/100 LNK/ACT (Orange) 1/10G SFP+ Interfaces (Port-25 to Port-28): 1G (Green), 10G (Orange)		
Switching Specifications			
Switch Architecture	Store-and-Forward		
Switch Fabric	128Gbps/non-blocking		
Throughput	95.23Mpps@64Bytes		
Address Table	16K entries, automatic source address learning and	aging	
Shared Data Buffer	32M bits	- 3 3	
Flow Control	IEEE 802.3x pause frame for full-duplex		
lumba Farma	Back pressure for half-duplex		
Jumbo Frame	10K bytes		
Power over Ethernet PoE Standard	IEEE 902 20f/902 20t DoE DSE		
	IEEE 802.3af/802.3at PoE PSE		
PoE Power Supply Type	End-span	Dor nort 52\/ DC 26 watta (may)	
PoE Power Output	Per port 54V DC, 36 watts (max.) End-span: 1/2(-), 3/6(+)	Per port 52V DC, 36 watts (max.)	
Power Pin Assignment	1 (7)	600 watts (max)	
PoE Power Budget	400 watts (max.)	600 watts (max.)	
PoE Ability PD @ 7 watts	24 units	24 units	
PoE Ability PD @ 15 watts	24 units	24 units	
PoE Ability PD @ 30 watts	13 units	20 units	
PoE Management Functions Active RoE Device Alive Detection	Voc		
Active PoE Device Alive Detection		Yes Yes	
PoE Power Recycling PoE Schedule	Yes, daily or predefined schedule		
PoE Extend Mode	4 schedule profiles		
PoE System Management	Yes, max. 160 to 200 meters System PoE Admin control Total PoE power budget control Auto power input and PoE budget control PoE Legacy mode Over-temperature threshold alarm PoE usage threshold alarm		



Layer 3 Functions	
IP Interfaces	Max. 128 VLAN interfaces
Routing Table	Max. 128 routing entries IPv4 OSPFv2
Routing Protocols	IPv4 hardware static routing
Routing Frotocois	IPv6 hardware static routing
Layer 2 Management Functions	II VO Hardware Static routing
Layer 2 Management runctions	Port disable/enable
Port Configuration	Auto-negotiation 10/100/1000Mbps full and half duplex mode selection
1 ort comiguration	Flow control disable/enable
Port Status	Display each port's speed duplex mode, link status, flow control status, auto-negotiation status, trunk status
1 Off Status	TX/RX/Both
Port Mirroring	Many-to-1 monitor
	IEEE 802.1Q tagged VLAN
	IEEE 802.1ad Q-in-Q tunneling
	Private VLAN Edge (PVE)
	MAC-based VLAN
	Protocol-based VLAN
VLAN	VLAN Translation
	GVRP
	Voice VLAN
	MVR (Multicast VLAN registration)
	Up to 4K VLAN groups, out of 4095 VLAN IDs
	IEEE 802.3ad LACP/static trunk
Link Aggregation	14 groups with 4 port per trunk
	IEEE 802.1D Spanning Tree Protocol (STP)
Spanning Tree Protocol	IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
	IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
	IGMP (v1/v2/v3) snooping
IGMP Snooping	IGMP querier mode support
	Up to 255 multicast groups
	MLD (v1/v2) snooping
MLD Snooping	MLD querier mode support
	Up to 255 multicast groups
	Per port bandwidth control
Bandwidth Control	Ingress: 100Kbps~1000Mbps
	Egress: 100Kbps~1000Mbps
	Support ERPS, complies with ITU-T G.8032
Ring	Recovery time < 10ms with 3 units
	Recovery time < 50ms with 16 units
	Traffic classification based, strict priority and WRR
	8-level priority for switching:
QoS	- Port number
Q03	- 802.1p priority
	- 802.1Q VLAN tag
	- DSCP/ToS field in IP packet
Security Functions	
Access Control List	IP-based ACL/MAC-based ACL
7.00033 COTILI OF LIST	Up to 256 entries
	Port Security
Security	IP source guard
Cooding	Dynamic ARP inspection
	Command line authority control based on user level
AAA	RADIUS client
	TACACS+ client
Network Access Control	IEEE 802.1x port-based network access control
	MAC-based authentication
	Local/RADIUS authentication
Switch Management	
Basic Management Interfaces	Console; Telnet
	Web browser
	SNMP v1, v2c;
	2.4-inch color LCD touch screen





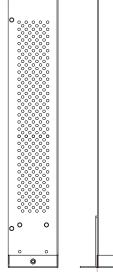
Secure Management Interfaces	SSHv2, TLSv1.2, SNMP v3	
System Management	Firmware upgrade by HTTP protocol through Ethernet in Configuration upload/download through HTTP Remote syslog System log LLDP protocol NTP PLANET Smart Discovery Utility	network
Event Management	Remote syslog Local system log SMTP	
ONVIF	ONVIF device discovery ONVIF device monitoring Floor Map	
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 802.1ad Q-in-Q VLAN stacking 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 ITU-T G.8032 ERPS Ring
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)	

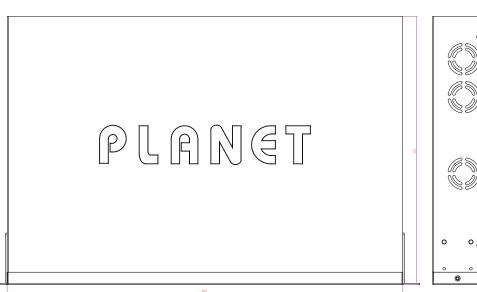


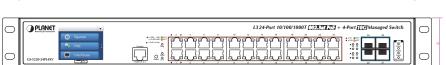
Dimensions

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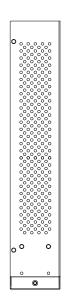




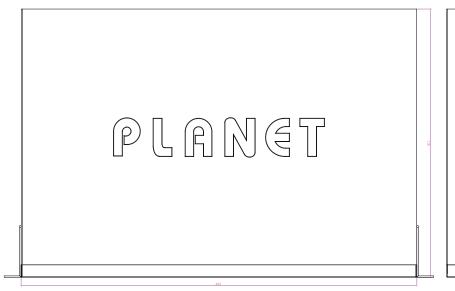
Unit: mm

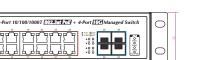
GS-5220-24P(L)4XVR





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Ordering Information

GS-5220-24P4XV	L3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch with LCD Touch Screen (400W)
GS-5220-24PL4XVR	L3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Switch with LCD Touch Screen and Redundant Power (600W)

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-RJ	Mini GBIC 10G TP Module - 30m
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 - 20km
MGB-L40	SFP-Port 1000BASE-LX mini-GBIC module - 40km
MGB-L80	SFP-Port 1000BASE-LX mini-GBIC module - 80km
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

Tel: 886-2-2219-9518 Email: sales@planet.com.tw Fax: 886-2-2219-9528 www.planet.com.tw

