

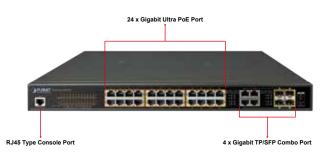
GS-4210-24UP4C

24-Port 10/100/1000T Ultra PoE + 4-Port Gigabit TP/SFP Combo Managed Switch



A New Generation Ultra PoE Managed Switch with Advanced L2/L4 Switching and Security

PLANET GS-4210-24UP4C is a cost-optimized, 1U, Gigabit Ultra PoE Managed Switch featuring PLANET intelligent PoE functions to improve the availability of critical business applications. It provides IPv6/IPv4 dual stack management and built-in L2/L4 Gigabit switching engine along with 24 10/100/1000BASE-T ports featuring 60-watt Ultra PoE and 4 additional Gigabit TP/SFP combo ports. With a total power budget of up to 600 watts for different kinds of PoE applications, respectively, the GS-4210-24UP4C provides a quick, safe and cost-effective Ultra PoE network solution for small businesses and enterprises.



60 Watts of Power over 4-pair UTP

The GS-4210-24UP4C Ultra PoE solution adopts the IEEE 802.3at/af standard. Instead of delivering power over 2-pair twisted UTP – be it end-span (Pin 1,2,3 and 6) or mid-span (Pin 4,5,7 and 8), it provides the capability to source up to 60 watts of power by using all the four pairs of standard Cat.5e/6 Ethernet cabling. In the new 4-pair system, two PSE controllers will be used to power both the data pairs and the spare pairs. It can offer more PoE applications, such as:

- PoE PTZ speed dome
- Any network device that needs higher PoE power to work normally
- Thin-client
- AIO (All-in-One) touch PC
- Remote digital signage display

Physical Port

- 28 10/100/1000BASE-T Gigabit RJ45 copper ports with 24port IEEE 802.3at/af/Ultra PoE injector
- 4 100/1000BASE-X mini-GBIC/SFP slots, shared with port-25 to port-28 compatible with 100BASE-FX SFP
- RJ45 console interface for switch basic management and setup

Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet Plus, endspan/mid-span PSE
- · Backward compatible with IEEE 802.3af Power over Ethernet
- Up to 24 ports of IEEE 802.3af/IEEE 802.3at/Ultra PoE devices powered
- · Supports PoE power up to 60 watts for each ultra 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 port power feeding priority
 - Per PoE port power limitation
 - PD classification detection
 - 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 Store and Forward architecture, broadcast storm control, and runt/CRC filtering that eliminates erroneous packets to optimize the network bandwidth
- Supports VLAN
 - IEEE 802.1Q tagged VLAN
 - Provider Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)
 - Protocol VLAN
 - Voice VLAN
 - Private VLAN
 - Management VLAN
 - GVRP
- Supports Spanning Tree Protocol
 - STP (Spanning Tree Protocol)
 - RSTP (Rapid Spanning Tree Protocol)





Watts

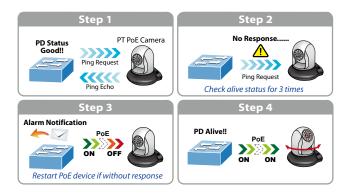
Built-in Unique PoE Functions for Powered Devices Management

As it is the managed PoE switch for surveillance, wireless and VoIP networks, the GS-4210-24UP4C features the following special PoE management functions:

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

Intelligent Powered Device Alive Check

The GS-4210-24UP4C 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-4210-24UP4C 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 reducing administrator management burden.



Scheduled Power Recycling

The GS-4210-24UP4C allows each of the connected PoE IP cameras or PoE wireless access points to reboot at a specified time each week. Therefore, it will reduce the chance of IP camera or AP crash resulting from buffer overflow.



- MSTP (Multiple Spanning Tree Protocol)
- STP BPDU Guard, BPDU filtering and BPDU forwarding
- Supports Link Aggregation
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- Cisco ether-channel (static trunk)
- Provides port mirror (many-to-1)
- Loop protection to avoid broadcast loops

Quality of Service

- · Ingress and egress rate limit per port bandwidth control
- Storm control support
 - Broadcast/Unknown unicast/Unknown multicast
- Traffic classification
 - IEEE 802.1p CoS
 - TOS/DSCP/IP precedence of IPv4/IPv6 packets
- Strict priority and Weighted Round Robin (WRR) CoS policies

Multicast

- Supports IPv4 IGMP snooping v2 and v3
- Supports IPv6 MLD snooping v1, v2
- IGMP querier mode support
- · IGMP snooping port filtering
- MLD snooping port filtering

Security

- · Authentication
 - IEEE 802.1X port-based network access authentication
 - Built-in RADIUS client to cooperate with the RADIUS servers
 - RADIUS/TACACS+ login user access authentication
- · Access control list
 - IPv4/IPv6 IP-based ACL
 - MAC-based ACL
- MAC security
 - Static MAC
 - MAC filtering
- · Port security for source MAC address entries filtering
- · DHCP snooping to filter distrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- · IP source guard prevents IP spoofing attacks
- DoS attack prevention
- SSH/SSL

Management

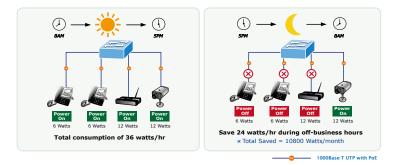
- · IPv4 and IPv6 dual stack management
- Switch management interface
- Web switch management
- Telnet command line interface
- SNMP v1, v2c and v3
- SSH and SSL secure access
- · User privilege levels control



GS-4210-24UP4C

PoE Schedule for Energy Saving

Under the trend of energy saving worldwide and contributing to environmental protection, the GS-4210-24UP4C 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. It also increases security by powering off PDs that should not be in use during non-business hours.



PoE Usage Monitoring

Via the power usage chart in the web management interface, the GS-4210-24UP4C enables the administrator to monitor the status of the power usage of the connected PDs in real time. Thus, it greatly enhances the management efficiency of the facilities.

Environment-friendly, Smart Fan Design for Silent Operation

The GS-4210-24UP4C features a desktop-sized metal housing, a low noise design and an effective ventilation system. It supports 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. The GS-4210-24UP4C is able to operate reliably, stably and quietly in any environment without affecting its performance.

IPv6/IPv4 Dual Stack Management

Supporting both IPv6 and IPv4 protocols, the GS-4210-24UP4C helps the SMBs to step in the IPv6 era with the lowest investment as its network facilities need not be replaced or overhauled if the IPv6 FTTx edge network is set up.

Robust Layer 2 Features

The GS-4210-24UP4C can be programmed for advanced switch management functions such as dynamic port link aggregation, 802.1Q VLAN and Q-in-Q VLAN, Multiple Spanning Tree Protocol (MSTP), loop and BPDU guard, IGMP snooping, and MLD snooping. Via the link aggregation, the GS-4210-24UP4C allows the operation of a high-speed trunk to combine with multiple ports, and supports fail-over as well. Also, the Link Layer Discovery Protocol (LLDP) is the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain.



- Built-in Trivial File Transfer Protocol (TFTP) client
- BOOTP and DHCP for IP address assignment
- System maintenance
 - Firmware upload/download via HTTP/TFTP
 - Configuration upload/download through web interface
 - Dual images
 - Hardware reset button for system reboot or reset to factory default
- SNTP Network Time Protocol
- · Cable diagnostics
- Link Layer Discovery Protocol (LLDP) and LLDP-MED
- SNMP trap for interface link up and link down notification
- · Event message logging to remote Syslog server
- · Four RMON groups (history, statistics, alarms and events)
- PLANET smart discovery utility
- · Smart fan with speed control



Efficient Traffic Control

The GS-4210-24UP4C is loaded with robust QoS features and powerful traffic management to enhance services to business-class data, voice and video solutions. The functionality includes broadcast/multicast storm control, per port bandwidth control, IP DSCP QoS priority and remarking. It guarantees the best performance for VoIP and video stream transmission, and empowers the enterprises to take full advantage of the limited network resources.

Powerful Security

PLANET GS-4210-24UP4C offers comprehensive IPv4/IPv6 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 applications. Its protection mechanism also comprises 802.1X port-based user and device authentication, which can be deployed with RADIUS to ensure the port level security and block illegal users. With the protected port function, communication between edge ports can be prevented to guarantee user privacy. Furthermore, Port security function allows to limit the number of network devices on a given port.

Advanced Network Security

The GS-4210-24UP4C 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 administrators can now construct highly-secure corporate networks with considerably less time and effort than before.

Friendly and Secure Management

For efficient management, the GS-4210-24UP4C is equipped with web, Telnet and SNMP management interfaces. With the built-in web-based management interface, the GS-4210-24UP4C offers an easy-to-use, platform-independent management and configuration facility. By supporting the standard SNMP, the switch can be managed via any standard management software. For text-based management, the switch can be accessed via Telnet. Moreover, the GS-4210-24UP4C offers secure remote management by supporting SSH, SSL and SNMP v3 connections which encrypt the packet content at each session.

Flexibility and Long-distance Extension Solution

The four mini-GBIC slots built in the GS-4210-24UP4C support SFP auto-detection and dual speed as it features 100BASE-FX and 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber transceivers to uplink to backbone switch and monitoring center in long distance. The distance can be extended from 550 meters to 2 kilometers (multi-mode fiber) and up to above 10/20/30/40/50/70/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

Intelligent SFP Diagnosis Mechanism

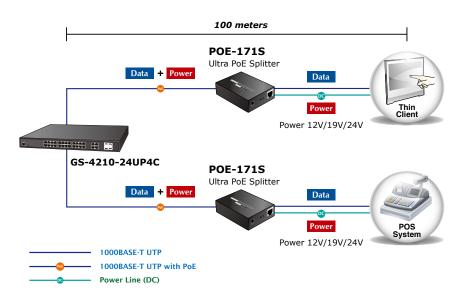
The GS-4210-24UP4C supports SFP-DDM (Digital Diagnostic Monitor) function that can easily monitor real-time parameters of the SFP for network administrator, such as optical output power, optical input power, temperature, laser bias current and transceiver supply voltage.



Applications

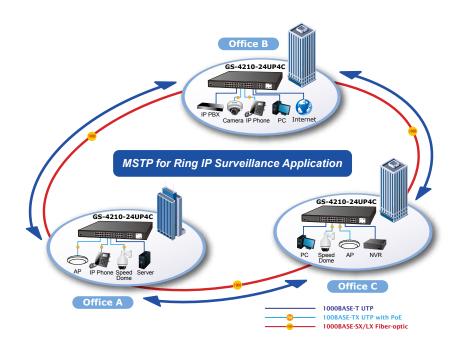
Ultra PoE Networking Solution

PLANET GS-4210-24UP4C can easily build an Ultra PoE networking solution on the cyber security system for the enterprises. For instance, it can work with the POS system and thin client to perform comprehensive security protection for today's businesses. The GS-4210-24UP4C and Ultra PoE Splitter - POE-171S, operate as a pair to provide the easiest way to power your Ethernet devices which need high power input. Receiving data and power from the GS-4210-24UP4C, the POE-171S separates digital data and power into three optional outputs (12V, 19V or 24V DC) to non-PoE devices such as laptops, Thin Client, POS System, PTZ (Pan, Tilt & Zoom) network cameras, PTZ speed dome, color touch-screen IP phones, multi-channel wireless LAN access points and other network devices at distance up to 100 meters.



Multiple Spanning Tree Protocol with PoE IP Office Solution for SMBs and Workgroups

The GS-4210-24UP4C features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates Multiple Spanning Tree Protocol (802.1s MSTP) into customer's automation network to enhance system reliability and uptime. Applying the IEEE 802.3af/IEEE 802.3at/Ultra PoE standard, the GS-4210-24UP4C can directly connect with any IEEE 802.3at/Ultra PoE end-nodes like PTZ (Pan, Tilt & Zoom) network cameras and speed dome cameras. The GS-4210-24UP4C can easily help enterprises with the available network infrastructure to build wireless AP, IP camera and VoIP systems where power can be centrally-controlled.





GS-4210-24UP4C

Specifications

Product	GS-4210-24UP4C
Hardware Specifications	
Copper Ports	28 x 10/100/1000BASE-T RJ45 auto-MDI/MDI-X port
SFP/mini-GBIC Slots	4 x 100/1000BASE-X SFP interface shared with port-25 to port-28 Supports 100/1000Mbps dual mode and DDM
PoE Injector Port	24 ports with 802.3at/af/Ultra PoE injector function with port-1 to port-24
Switch Architecture	Store-and-Forward
Switch Fabric	56Gbps/non-blocking
Switch Throughput@64Bytes	41.67Mpps
Address Table	8K entries
Shared Data Buffer	4.1 megabits
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
LED	PWR, SYS, LNK/ACT, PoE-in-use, 1000, FAN1, FAN2, PWR FAN, PoE PWR
Power Requirements	100~240V AC, 50/60Hz, auto-sensing
Dimensions (W x D x H)	440 x 300 x 44.5 mm, 1U height
ESD Protection	Contact Discharge 4KV DC Air Discharge 8KV DC
Enclosure	Metal
Weight	5062g
Power Consumption/Dissipation	740 watts (max.)/2525 BTU
Fan	4 x smart fan
Power over Ethernet	
PoE Standard	IEEE 802.3af/802.3at/Ultra PoE PSE
PoE Power Supply Type	End-span/Mid-span/UPoE
PoE Power Output	Per port 52V DC, 60 watts (max.)
Power Pin Assignment	End-span: 1/2(-), 3/6(+) Mid-span: 4/5(+), 7/8(-) UPoE: 1/2(-), 3/6(+),4/5(+), 7/8(-)
PoE Power Budget	600 watts (max.)
PoE Ability PD @ 15 watts	24 units
PoE Ability PD @ 30 watts	20 units
PoE Ability PD @ 60 watts	10 units
Layer 2 Functions	
Port Mirroring	TX/RX/both Many-to-1 monitor
VLAN	802.1Q tagged-based VLAN Up to 256 VLAN groups, out of 4094 VLAN IDs 802.1ad Q-in-Q tunneling Voice VLAN Protocol VLAN Private VLAN (Protected port) GVRP
Link Aggregation	IEEE 802.3ad LACP and static trunk Supports 4 groups of 4-port 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)
IGMP Snooping	IGMP (v2/v3) snooping IGMP querier Up to 256 multicast groups
MLD Snooping	MLD (v1/v2) snooping, up to 256 multicast groups
Access Control List	IPv4/IPv6 IP-based ACL/MAC-based ACL
QoS	8 mapping IDs to 8 level priority queues - Port number - 802.1p priority - 802.1Q VLAN tag - DSCP field in IP packet Traffic classification based, strict priority and WRR



Security EEE 802.1K port-based authentication PADLOS fraceAc64 user access authentication PADLOS fraceAc64 user access authentication DFPADLOS fraceAc64 user access authentication DFPADLOS fraceAc64 user access authentication DFPADLOS fraceAc64 user access authentication DFPADLOS fraceAc64 user access and access authentication DFPADLOS fraceAc64 user access and access authentication DFPADLOS fraceAc64 user access authentinteges accocos fraceAc64 user accccos fraceAc64 user access aut			
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SNMP MiBs RFC 1215 Generic Traps RFC 2474 Bridge MiB Extensions RFC 2474 Bridge MiB Extensions RFC 2475 Entity MiB (V2) RFC 2475 Entity MiB (V2) Standards Conformance FCC 2473 Entity MiB (V2) Regulatory Compliance FCE 2473 Entity MiB (V2) Standards Conformance FEE 802.3 10BASE-T X100BASE-FX FEE 802.3 23 Gigabit SXLX FEE 802.3 23 Gigabit SXLX FEE 802.3 23 Gigabit SXLX FEE 802.3 34 Gigabit 1000T FEE 802.3 Standards Compliance FEE 802.3 40 Gigabit 1000T Standards Compliance FEE 802.3 40 Gigabit 1000T FEE 802.3 10 Spanning Tree Protocol FEE 802.1 W Engiti Spanning Tree Protocol FEE 802.1 W Engit Spanning Tree Protocol FEE 802.3 10 VUAN tagging FEE 802.3 10 FUAN cover Ethernet Plus RFC 778 UDP RFC 778 UDP RFC 778 UDP RFC 778 UDP RFC 778 UDP RFC 771 P RFC 778 UDP RFC 771 P RFC 778 UDP RFC 778 IDM PV RFC 778 IDM PV RFC 778 IDM PV	Secure Management Interfaces	SSH, SSL, SNMP v3	
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Storage Temperature: -20 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)	Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)	
	Storage	Temperature: -20 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)	

Ordering Information

GS-4210-24UP4C	24-Port 10/100/1000T Ultra PoE + 4-Port Gigabit TP/SFP Combo Managed Switch (600W)

Related Products

GS-4210-16UP4C	16-Port 10/100/1000T Ultra PoE + 4-Port Gigabit TP/SFP Combo Managed Switch (400W)
UPOE-800G	8-Port 10/100/1000T Ultra PoE Managed Injector Hub (400W)
UPOE-1600G	16-Port 10/100/1000T Ultra PoE Managed Injector Hub (600W)
POE-171	Single-Port 10/100/1000Mbps Ultra PoE Injector (60 Watts, external power supply)
POE-173	Single-Port 10/100/1000Mbps Ultra PoE Injector (60 Watts, internal power supply)
POE-171S	Single-Port 10/100/1000Mbps Ultra PoE Splitter (12V/19V/24V)
IPOE-E174	1-Port Ultra PoE to 4-Port 802.3af/at Gigabit PoE Extender



Available 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

Available 100Mbps Modules

MFB-FX	SFP-Port 100BASE-FX Transceiver (1310nm) - 2km
MFB-F20	SFP-Port 100BASE-FX Transceiver (1310nm) - 20km
MFB-F40	SFP-Port 100BASE-FX Transceiver (1310nm) - 40km
MFB-F60	SFP-Port 100BASE-FX Transceiver (1310nm) - 60km
MFB-FA20	SFP-Port 100BASE-BX Transceiver (WDM,TX:1310nm) - 20km
MFB-FB20	SFP-Port 100BASE-BX Transceiver (WDM,TX:1550nm) - 20km

PLANET Technology Corporation

 11F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231,

 Taiwan (R.O.C.)

 Tel: 886-2-2219-9518

 Fax: 886-2-2219-9528

 Email: sales@planet.com.tw

 www.planet.com.tw

GS-4210-24UP4C

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