



Industrial 8-Port 10/100/1000T 802.3at PoE plus 2-Ports 100/1000X SFP Wall-Mount Managed Switch

Item # PT-WGS-4215-8P2S

Description

Easily-deployed and Expanded Network

Designed to be installed in a wall enclosure or simply mounted on a wall in any convenient location, Planet WGS-4215-8P2S, an innovative, Industrial 8-port 10/100/1000T 802.3at PoE + 2-port 100/1000X SFP Wall-mounted Managed Switch, offers IPv6/IPv4 dual stack management, intelligent Layer 2 management functions, and user-friendly interface. The WGS-4215-8P2S is able to operate reliably, stably and quietly in any environment without affecting its performance. With a total power budget of up to 200 watts for different kinds of PoE applications and featuring ultra networking speed and operating temperature ranging from -40 to 75 degrees C in a compact but rugged IP30 metal housing, the WGS-4215-8P2S is an ideal solution to meeting the demand for the following network applications:

- Building/Home automation network
- Internet of things (IoT)
- IP surveillance
- Wireless LAN

Built-in Unique PoE Functions for Powered Devices Management

As it is the managed PoE switch for surveillance, wireless and VoIP networks, the WGS-4215-

8P2S features the following special PoE management functions:

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

Intelligent Powered Device Alive Check

The WGS-4215-8P2S can be configured to monitor connected PD (Powered Device) status in real time via ping action. Once the PD stops working and responding, the WGS-4215-8P2S 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 WGS-4215-8P2S allows each of the connected PoE IP cameras or PoE wireless access points to reboot at a specific time each week. Therefore, it will reduce the chance of IP camera or AP crash resulting from buffer overflow.

PoE Schedule for Energy Saving

Under the trend of energy saving worldwide and contributing to environmental protection, the WGS-4215-8P2S 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 budget. It also increases security by powering off PDs that should not be in use during non-business hours.

Innovative Wall-mount Installation

The WGS-4215-8P2S is specially designed to be installed in a narrow environment, such as wall enclosure or electric weak box. The compact, flat and wall-mounted design fits easily in any space-limited location. It adopts the user-friendly "Front Access" design, making the installing, cable wiring, LED monitoring and maintenance of the WGS-4215-8P2S placed in an enclosure very convenient for technicians. The WGS-4215-8P2S can be installed by fixed wall mounting, magnetic wall mounting or DIN rail, thereby making its usability more flexible.

Environmentally Hardened Design

With IP30, flat but rugged metal housing protection, the WGS-4215-8P2S provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curb-side traffic control cabinets without air conditioner. Being able to operate under the temperature range from -40 to 75 degrees C, the WGS-4215-8P2S can be placed in almost any difficult environment.

IPv6/IPv4 Dual Stack Management

Supporting both IPv6 and IPv4 protocols, the WGS-4215-8P2S 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 WGS-4215-8P2S can be programmed for advanced switch management functions such as dynamic port link aggregation, 802.1Q VLAN, Q-in-Q VLAN, Multiple Spanning Tree Protocol (MSTP), Loop and BPDU Guard, IGMP Snooping, and MLD Snooping. Via the link aggregation, the WGS-4215-8P2S allows the operation of a high-speed trunk to combine with multiple ports such as a 16Gbps fat pipe, 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.

Efficient Traffic Control

The WGS-4215-8P2S 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/unicast storm control, per port bandwidth control, 802.1p/CoS/IP DSCP QoS priority and remarking. It guarantees the best performance in VoIP and video stream transmission, and empowers the enterprises to take full advantage of the limited network resources.

Friendly and Secure Management

For efficient management, the WGS-4215-8P2S is equipped with web, Telnet and SNMP management interfaces. With the built-in web-based management interface, the WGS-4215-8P2S 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 WGS-4215-8P2S offers secure remote management by supporting SSH, SSL and SNMP v3 connections which encrypt the packet content at each session.

Advanced Network Security

Planet WGS-4215-8P2S offers a comprehensive IPv4/IPv6 Layer 2 to Layer 4 Access Control List (ACL) for enforcing security to the edge. 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, the WGS-4215-8P2S also provides DHCP snooping, IP source guard and dynamic ARP inspection functions to prevent IP snooping from attack and discarded ARP packets with invalid MAC address. The network administrators can now construct highly-secure corporate networks with considerably less time and effort than before.

Flexibility and Long-distance Extension Solution

The two mini-GBIC slots built in the WGS-4215-8P2S 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 10/20/30/40/50/60/70/120 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 WGS-4215-8P2S 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.

Features

- 8-Port 10/100/1000BASE-T Gigabit RJ45 copper with IEEE 802.3at PoE+ Injector function
- 2 100/1000BASE-X mini-GBIC/SFP slots
- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE, up to 8 ports of IEEE 802.3af/802.3at devices powered
- Compact size, wall-mounted, magnetic wall mount and DIN-rail design, IP30 metal case protection
- Hardware based 10/100Mbps, half/full duplex and 1000Mbps full duplex mode, flow control and auto-negotiation and auto MDI/MDI-X

Application

- Building / Home automation networks
- Internet of things (IoT)
- IP surveillance
- Wireless LAN