Industrial 8-port 10/100/1000T + 2-port 1G/2.5G SFP Wall-mount Managed Switch Series

Physical Port

- **8 10/100/1000BASE-T** Gigabit Ethernet RJ45 ports **(WGS-5225-8T2SV)**
- **8 10/100/1000BASE-T** Gigabit RJ45 copper ports with **IEEE 802.3at/af PoE** Injector function **(WGS-5225-8P2S/ WGS-5225-8P2SV)**
- **2 1000/2500BASE-X SFP** slots for SFP type auto detection

Power over Ethernet (WGS-5225-8P2S/WGS-5225-8P2SV)

- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE
- Backward compatible with IEEE 802.3af Power over Ethernet
- Up to 8 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 36 watts for each PoE port
- 240-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100 meters in standard mode and 250m in extend mode
- PoE management
  - Total PoE power budget control
  - Per port PoE function enable/disable
  - PoE Port Power feeding priority
  - Per PoE port power limitation
  - PoE delay
  - PD classification detection
- Intelligent PoE features
- PD alive check
- PoE schedule
- PoE extension

Wall-mount Managed Switch with Advanced L2+/L4 Switching and Security

Designed to be installed in a wall enclosure or simply mounted on a wall in any convenient location, PLANET WGS-5225-series, an innovative **Industrial 8-port 10/100/1000T + 2-port 1G/2.5G SFP Wall-mounted Managed Switch**, offers IPv6/IPv4 dual stack management, intelligent **Layer 2 and Layer 4** management functions, and **user-friendly interface**. The WGS-5225-series is able to operate reliably, stably and quietly in any environment without affecting its performance. Featuring ultra networking speed and operating in harsh environment with low and high temperature in a compact but rugged IP30 metal housing, the WGS-5225-series 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

Model	WGS-5225-8P2S	WGS-5225-8P2SV	WGS-5225-8T2SV
Specifications			
10/100/1000T RJ45 Port	8	8	8
PoE+ Port/PoE Budget	8/240W	8/240W	-
SFP/mini-GBIC Slots	2, 1000/2500X	2, 1000/2500X	2, 1000/2500X
LCD Touch Screen	–	■	■
Power Requirements	**48~56V DC**	**48~56V DC**	**12~48V DC**
Operating Temperature	**-40 to 75 degrees C**	**-20 to 70 degrees C**	**-20 to 70 degrees C**

Industrial Case and Installation

- Compact size with fixed wall-mounted, magnetic wall-mounted or DIN-rail design
- IP30 metal case
- Supports **-20 to 70** degrees C operating temperature **(WGS-5225-8T2SV/WGS-5225-8P2SV)**
- Supports **-40 to 75** degrees C operating temperature **(WGS-5225-8P2S)**
- Supports ESD 6KV DC Ethernet protection
- **Dual** power input design
  - 12V~48V DC wide power input with reverse polarity protection **(WGS-5225-8T2SV)**
  - 48V~56V DC wide power input with reverse polarity

Cybersecurity Network Solution to Minimize Security Risks

The cybersecurity feature included to protect the switch management in a mission-critical network virtually needs no effort and cost to install. Both SSHv2 and TLSv1.2 protocols are utilized to provide strong protection against advanced threats. The network administrator can now construct highly-secure corporate networks with considerably less time and effort than before.

Intuitive LCD Control

The WGS-5225-8T2SV and WGS-5225-8P2SV come with an intuitive touch panel on its front panel to facilitate the Ethernet management to greatly promote management efficiency in large-scale networks, such as enterprises, hotels, shopping malls, government buildings, and other public areas. It also features the following special management and status functions:

- IP address, VLAN and QoS configuration
- PoE management and status (WGS-5225-8P2SV only)
- Port management and status, and SFP information
- Troubleshooting: cable diagnostic and remote IP ping
- Maintenance: reboot, factory default and save configuration

WGS-5225-8T2SV

Redundant Ring, Fast Recovery for Critical Network Applications

The WGS-5225-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) into customer's network to enhance system reliability and uptime in various environments. In a certain simple ring network, the recovery time of data link can be as fast as 10ms.

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 WGS-5225-8P2S and WGS-5225-8P2SV's GUI, you just need one click to search and show all of the ONVIF devices via network application. In addition, you can upload floor images to the switch and can remotely monitor or inspect an assembly line. Moreover, you can get real-time surveillance information and online/offline status; the PoE reboot can be controlled from the GUI.

protection (**WGS-5225-8P2S/WGS-5225-8P2SV**)
- 3-pin terminal block or DC jack connector

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/Unicast
- Supports VLAN
  - IEEE 802.1Q tagged VLAN
  - Up to 4K VLANs groups, out of 4094 VLAN IDs
  - Provider Bridging (VLAN Q-in-Q) support (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 (STP)
  - IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
  - IEEE 802.1s Multiple Spanning Tree Protocol (MSTP), spanning tree by VLAN
  - BPDU Guard
- Supports **Link Aggregation**
  - 802.3ad Link Aggregation Control Protocol (LACP)
  - Cisco ether-channel (static trunk)
- Provides port mirror (1-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)

Layer 3 IP Routing Features

- Supports maximum 32 static routes and route summarization

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
  - IP TOS/DSCP/IP precedence
  - 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

Built-in Unique PoE Functions for Powered Devices Management

As it is ideal for surveillance, wireless and VoIP networks, the WGS-5225-8P2S and WGS-5225-8P2SV feature the following special PoE management functions:

- PD Alive Check
- Scheduled Power Recycling
- PoE Schedule
- PoE Usage Monitoring
- PoE Extension

Intelligent Powered Device Alive Check

The WGS-5225-8P2S and WGS-5225-8P2SV 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-5225-8P2S and WGS-5225-8P2SV 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, thus reducing the administrator's management burden.

PD Alive Check

Scheduled Power Recycling

The WGS-5225-8P2S and WGS-5225-8P2SV allow 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.

PoE Schedule for Energy Savings

Under the trend of energy savings worldwide and contributing to environmental protection, the WGS-5225-8P2S and WGS-5225-8P2SV 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.
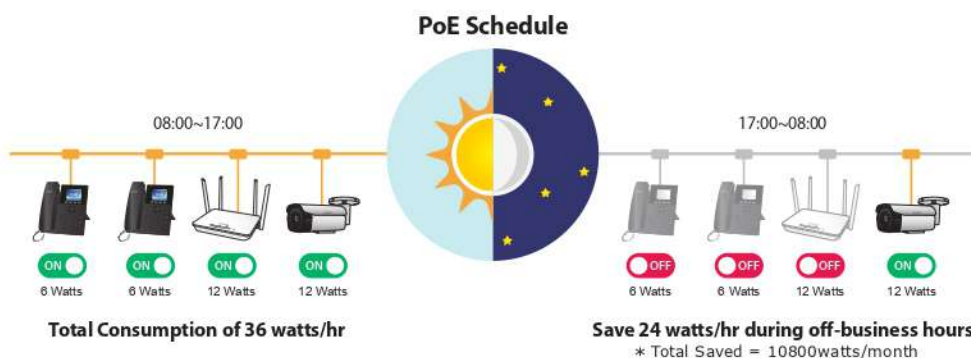
Multicast

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

Security

- IEEE 802.1x Port-based/MAC-based network access authentication
- Built-in RADIUS client to cooperate with the RADIUS servers
- TACACS+ login users access authentication
- RADIUS/TACACS+ users access authentication
- IP-based Access Control List (ACL)
- MAC-based Access Control List
- Source MAC/IP address binding
- 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
- IP address access management to prevent unauthorized intruder

Management

- Switch Management Interfaces
  - Telnet Command Line Interface
  - Web switch management
  - SNMP v1 and v2c switch management
  - SSHv2, TLSv1.2 and SNMP v3 secure access
  - 2.4-inch color LCD touch screen
- Four RMON groups (history, statistics, alarms, and events)
- IPv6 IP address/NTP/DNS management
- Built-in Trivial File Transfer Protocol (TFTP) client
- BOOTP and DHCP for IP address assignment
- Firmware upload/download via HTTP/TFTP
- DHCP Relay and DHCP Option 82
- User Privilege levels control
- Network Time Protocol (NTP)
- Link Layer Discovery Protocol (LLDP)
- SFP-DDM (Digital Diagnostic Monitor)
- Cable diagnostic technology provides the mechanism to detect and report potential cabling issues
- Reset button for system reboot or reset to factory default
- PLANET Smart Discovery Utility for deployment management
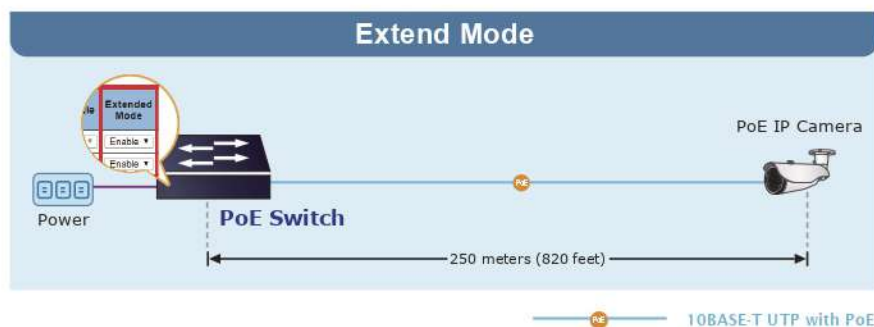- PLANET NMS system and CloudViewer app for deployment management

PoE Schedule

08:00~17:00   17:00~08:00

ON ON ON ON   OFF OFF OFF ON
6 Watts 6 Watts 12 Watts 12 Watts   6 Watts 6 Watts 12 Watts 12 Watts

Total Consumption of 36 watts/hr   **Save 24 watts/hr during off-business hours**
＊ Total Saved = 10800watts/month

PoE Usage Monitoring

Via the power usage chart in the web management interface, the WGS-5225-8P2S and WGS-5225-8P2SV enable 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.

802.3at PoE+ Power and Ethernet Data Transmission Distance Extension

In the "**Extend**" operation mode, the WGS-5225-8P2S and WGS-5225-8P2SV operate on a per-port basis at 10Mbps duplex operation but can support 36-watt PoE power output over a distance of up to **250 meters** overcoming the 100m limit on Ethernet UTP cable. With this brand-new feature, the WGS-5225-8P2S and WGS-5225-8P2SV provide an additional solution for 802.3at/af PoE distance extension, thus saving the cost of Ethernet cable installation.

Extend Mode

Extended Mode

Enable ▼
Enable ▼

Power   **PoE Switch**   PoE IP Camera

◄── 250 meters (820 feet) ──►

PoE ── 10BASE-T UTP with PoE

Innovative Wall-mount Installation

The WGS-5225-series is specially designed to be installed in a narrow environment, such as wall enclosure. 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-5225-series placed in an enclosure very convenient for technicians. The WGS-5225-series 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-5225-series 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 low and high temperature, the WGS-5225-series can be placed in almost any difficult environment.

IPv6/IPv4 Dual Stack Management

Supporting both IPv6 and IPv4 protocols, the WGS-5225-series 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.

SMTP/SNMP Trap Event Alert

The WGS-5225-series provides event alert function to help to diagnose the abnormal device owing to whether or not there is a break of the network connection, or the rebooting response.

Layer 3 IPv4 and IPv6 Software VLAN Routing for Secure and Flexible Management

To help customers stay on top of their businesses, the WGS-5225-serie not only provides ultra high transmission performance and excellent Layer 2 technologies, but also IPv4/IPv6 software VLAN routing feature which allows to cross over different VLANs and different IP addresses for the purpose of having a highly-secure, flexible management and simpler networking application.

Robust Layer 2 Features

The WGS-5225-series 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-5225-series 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.

Efficient Traffic Control

The WGS-5225-series 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.

Powerful Security

PLANET WGS-5225-series 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. The network administrators can now construct highly-secure corporate networks with considerably less time and effort than before.

User-friendly and Secure Management

For efficient management, the WGS-5225-series is equipped with Command line, Web and SNMP management interfaces.

 ■ With the built-in **Web-based** management interface, the WGS-5225-series offers an easy-to-use, platform-independent management and configuration facility.

 ■ For **text-based** management, it can be accessed via Telnet.

 ■ By supporting the standard SNMP protocol, the switch can be managed via any SNMP-based management software.

Moreover, the WGS-5225-series offers secure remote management by supporting **SSHv2**, **TLSv1.2** and **SNMP v3** connections which encrypt the packet content at each session.

### Modbus TCP Provides Flexible Network Connectivity for Factory Automation

With the supported **Modbus TCP** protocol, the WGS-5225-series can easily integrate with **SCADA** systems, **HMI** systems and other data acquisition systems in factory floors. It enables administrators to remotely monitor the industrial Ethernet switch's **operating information**, **port information** and **communication status**, thus easily achieving enhanced monitoring and maintenance of the entire factory.

Flexibility and Long-distance Extension Solution

The two SFP slots built in the WGS-5225-series support SFP auto-detection and triple speed as it features **100BASE-FX 1000BASE-SX/LX** and **2500BASESFP** (Small Form-factor Pluggable) fiber transceivers to uplink to backbone switch and monitoring center in long distance. The distance can be extended from 300 meters to 2 kilometers (multi-mode fiber) and to 10/20/40/60/80/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

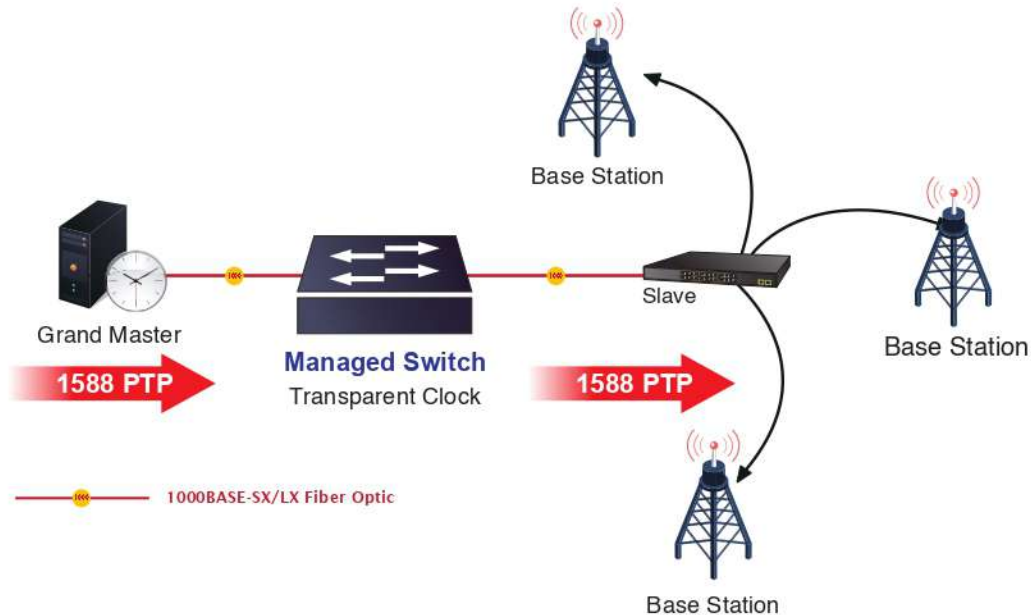### Intelligent SFP Diagnosis Mechanism

The WGS-5225-series supports **SFP-DDM (Digital Diagnostic Monitor)** function that can easily monitor real-time parameters of the SFP for the network administrator, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

SFP DDM *(Digital Diagnostic Monitor)*

| Voltage | Ammeter | Temperature | Power Transceiver | Power Receiver |
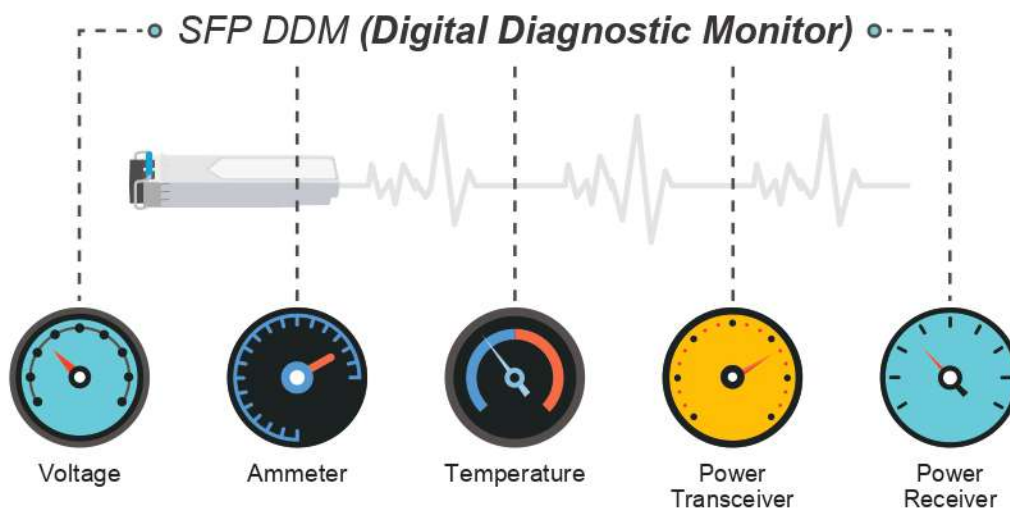
1588 Time Protocol for Industrial Computing Networks

The WGS-5225-series is ideal for telecom and Carrier Ethernet applications, supporting MEF service delivery and timing over packet solutions for IEEE 1588 and synchronous Ethernet.

Time Synchronization in Network

Base Station

Base Station

Slave

Grand Master

Base Station

1588 PTP

Managed Switch
Transparent Clock

1588 PTP

Base Station
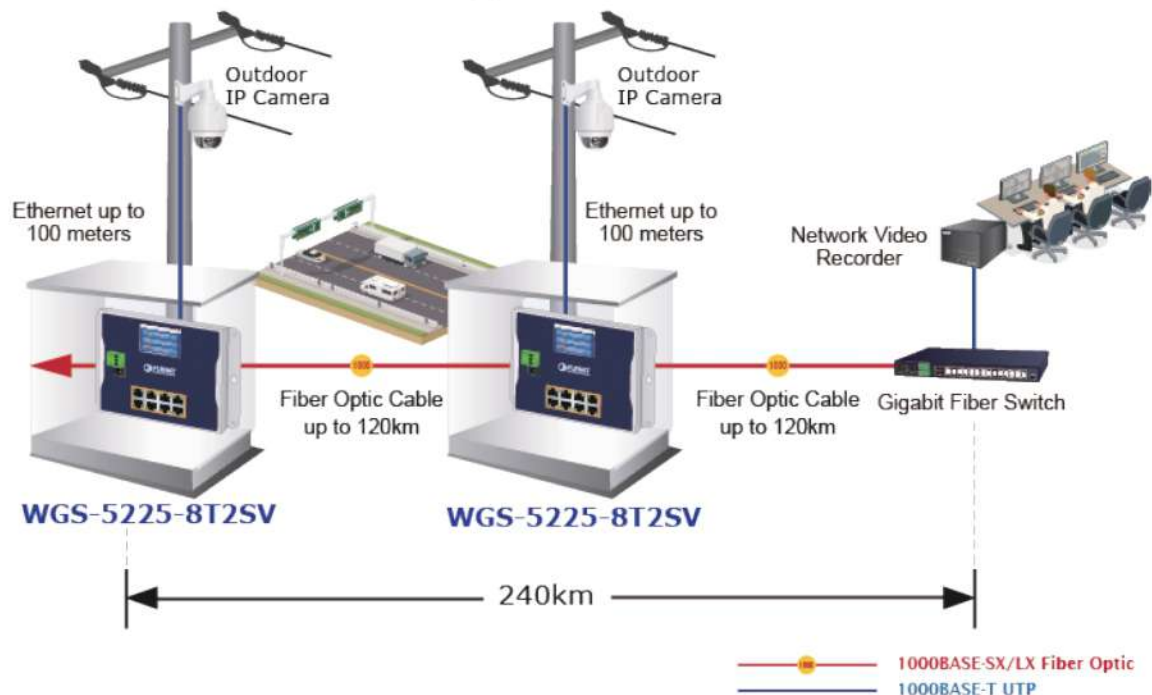
━━━━ **1000BASE-SX/LX Fiber Optic**

Applications

*Model that Withstands Harsh Operation and Extends Distance*

The WGS-5225-series is made to withstand any harsh operation in such environments as traffic control cabinets, factory floors, and indoor and outdoor locations where temperatures are extremely high or low. With a non-blocking design and compact size, the installation of the WGS-5225-series is easy and helpful to build a Gigabit high-bandwidth switched network quickly.

Extending Ethernet Distance

Outdoor IP Camera

Outdoor IP Camera

Network Video Recorder

Ethernet up to 100 meters

Ethernet up to 100 meters

Fiber Optic Cable up to 120km

Fiber Optic Cable up to 120km

Gigabit Fiber Switch

WGS-5225-8T2SV

WGS-5225-8T2SV

240km

━━━━ **1000BASE-SX/LX Fiber Optic**
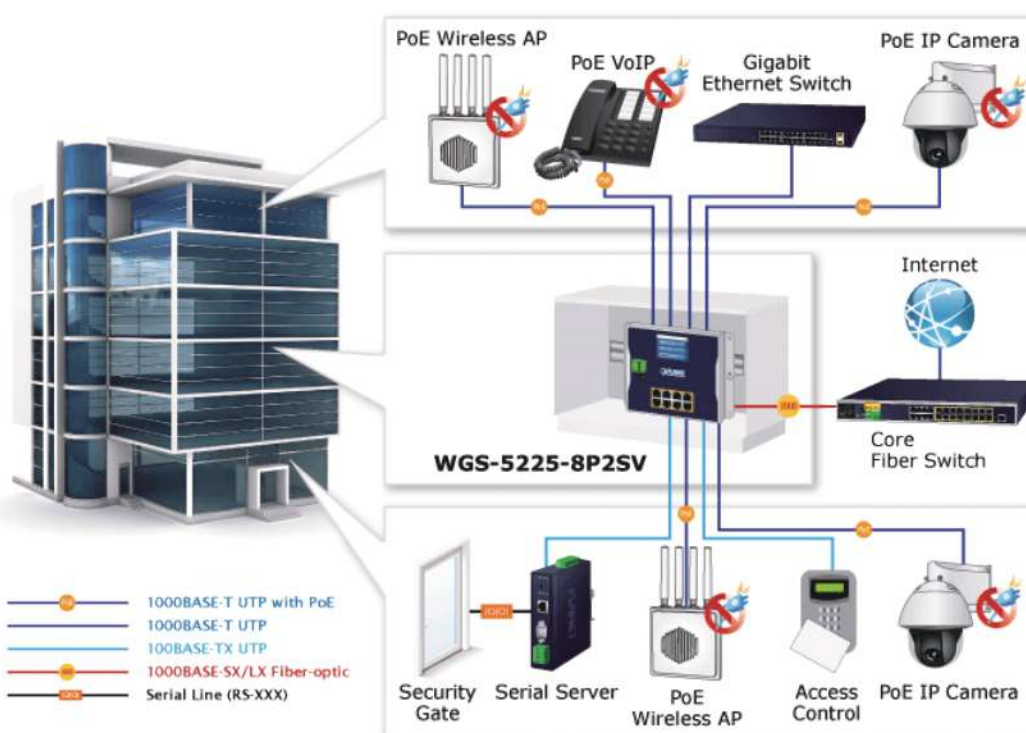━━━━ **1000BASE-T UTP**

ITU-T G.8032 ERPS Makes Data Transmission Uninterrupted

The WGS-5225-series features strong rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates **ITU-T G.8032 ERPS (Ethernet Ring Protection Switching)** technology into customer's automation network to enhance system reliability and uptime. Applying the IEEE 802.3at Power over Ethernet standard, the WGS-5225-series can directly connect with any IEEE 802.3at end-nodes like PTZ (Pan, Tilt & Zoom) network cameras and speed dome cameras. The WGS-5225-series can easily help system integrators with the available network infrastructure to build wireless AP, IP camera and VoIP systems where power can be centrally-controlled.
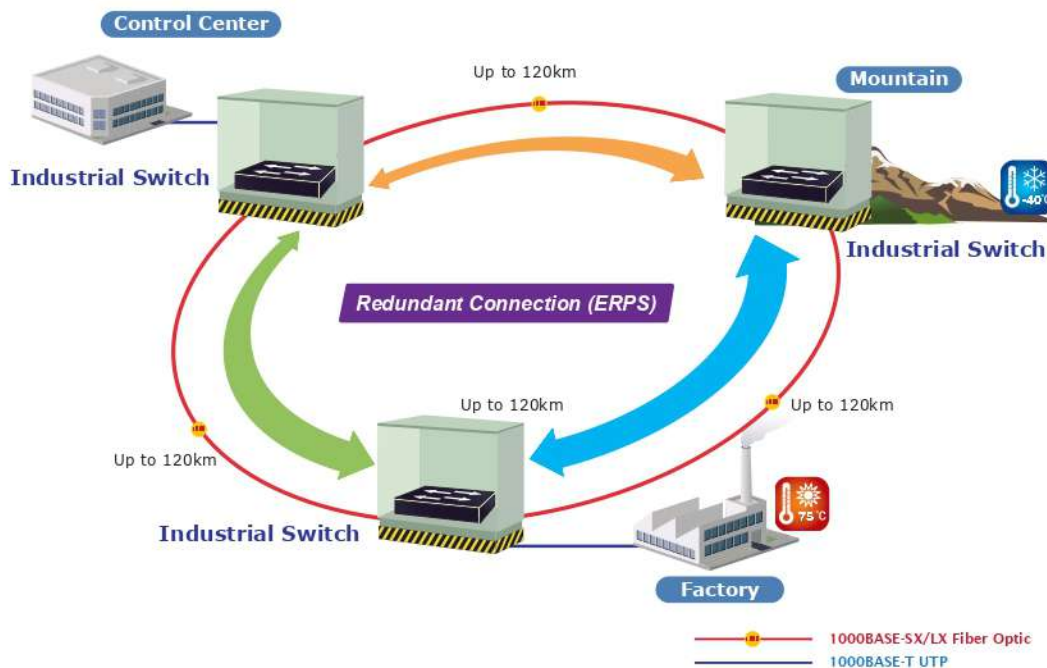
Security Building Automation Switch

Suitable for buildings where security is strictly to be enforced, the WGS-5225-series Industrial Wall-mount Managed Switch offers a comprehensive Layer 2 to Layer 4 Access Control List (ACL). The switch can restrict network access by denying packets based on source and destination IP address, TCP/UDP ports or defined typical network applications. With the WGS-5225-series, a tightly-controlled network can be easily had in no time.

Specifications

Product	WGS-5225-8P2S	WGS-5225-8P2SV	WGS-5225-8T2SV
Hardware Specifications			
Copper Ports	8 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports		
PoE Injector Port	8 ports with 802.3at/af PoE injector function with Port-1 to Port-8		-
SFP/mini-GBIC Slots	2 1000/2500BASE-SX/LX/BX SFP interfaces (Port-9 to Port-10) Compatible with 100BASE-FX SFP		
SDRAM	128Mbytes		
Flash Memory	64Mbytes		
Reset Button	< 5 sec: System reboot > 5 sec: Factory default		
ESD Protection	6KV DC		
Enclosure	IP30 metal case		
Installation	DIN-rail kit and wall-mount		
Connector	Removable 3-pin terminal block for power input - Pin 1/2 for Power (Pin 1: V+ / Pin 2: V-) - Pin 3 for earth ground DC power jack with 2.0mm central pole		
Dimensions (W x D x H)	180 x 24.4 x 140 mm		
Weight	686g		
Power Requirements	Dual 48~56V DC (>51V DC for PoE+ output recommended)		Dual 12~48V DC
Power Consumption	Max. 6.6 watts/22.6BTU (Power on without any connection) Max. 250.4 watts/ 859.1BTU (Full loading with PoE function)	Max. 7.2 watts/24.7BTU (Power on without any connection) Max. 251 watts/ 861.2BTU (Full loading with PoE function)	Max. 4.5 watts/15.4BTU (Power on without any connection) Max. 8.5 watts/29.1BTU (Full loading with Ethernet)
LED Indicator	System: PWR(Green) SYS (Green) Ring (Green) Ring Owner (Green) Per 10/100/1000T RJ45 PoE+ Ports: PoE-in-Use (Amber) LNK/ACT (Green) Per SFP Interface: 100 LNK/ACT (Amber) 1G/2.5G LNK/ACT (Green)		System: PWR(Green) SYS (Green) Ring (Green) Ring Owner (Greenn) Per 10/100/1000T RJ45 Ports: 10/100 LNK/ACT (Amber) 1000 LNK/ACT (Green) Per SFP Interface: 100 LNK/ACT (Amber) 1G/2.5G LNK/ACT (Green)
Power Over Ethernet (WGS-5225-8P2S/WGS-5225-8P2SV)			
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE		-
PoE Power Supply Type	End-span		-
PoE Power Output	IEEE 802.3af Standard - Per port 48V~51V DC (depending on the power supply), max. 15.4 watts IEEE 802.3at Standard - Per port 51V~56V DC (depending on the power supply), max. 36 watts		-
Power Pin Assignment	1/2(+), 3/6(-)		-
PoE Power Budget	240W maximum (depending on power input)		-
Max. Number of Class 2 PDs	8		-
Max. Number of Class 3 PDs	8		-
Max. Number of Class 4 PDs	8		-
PoE Management	PD Alive Check Scheduled Power Recycling PoE Schedule PoE Usage Monitoring PoE Extension		-
Switching Specifications			
Switch Architecture	Store-and-Forward		
Switch Fabric	26Gbps/non-blocking		
Throughput	19.34Mpps@ 64 bytes packet		
Address Table	8K entries, automatic source address learning and aging		
Shared Data Buffer	4M bits		
Flow Control	IEEE 802.3x pause frame for full duplex Back pressure for half duplex		
Jumbo Frame	9K bytes		

Layer 2 Management Functions

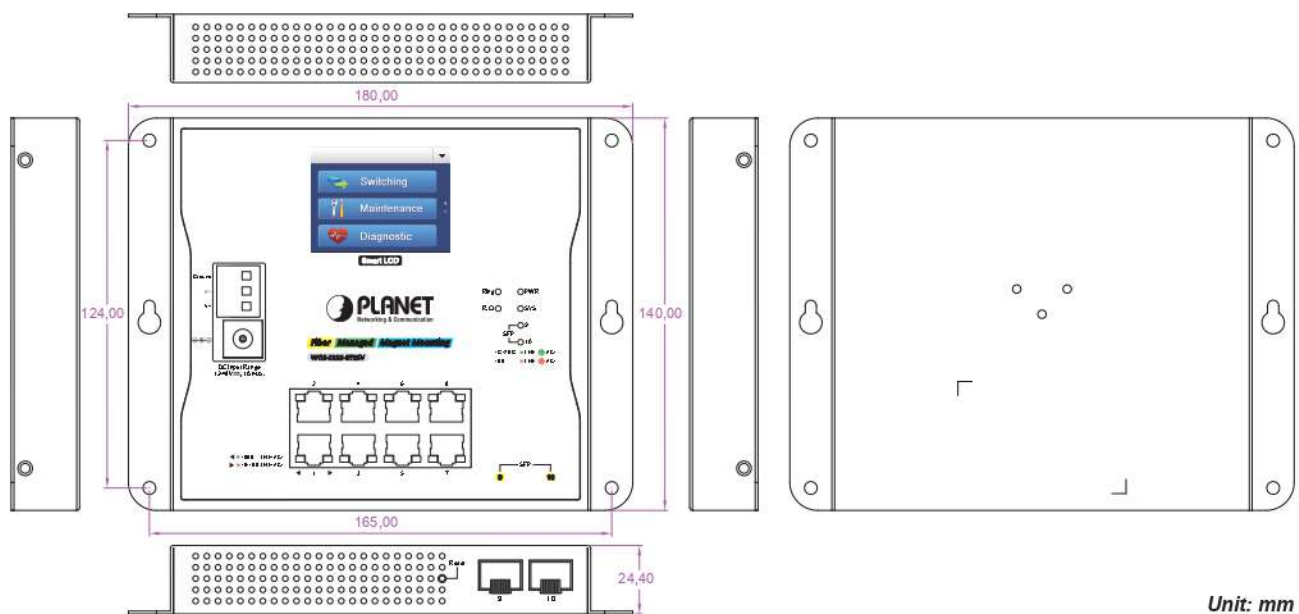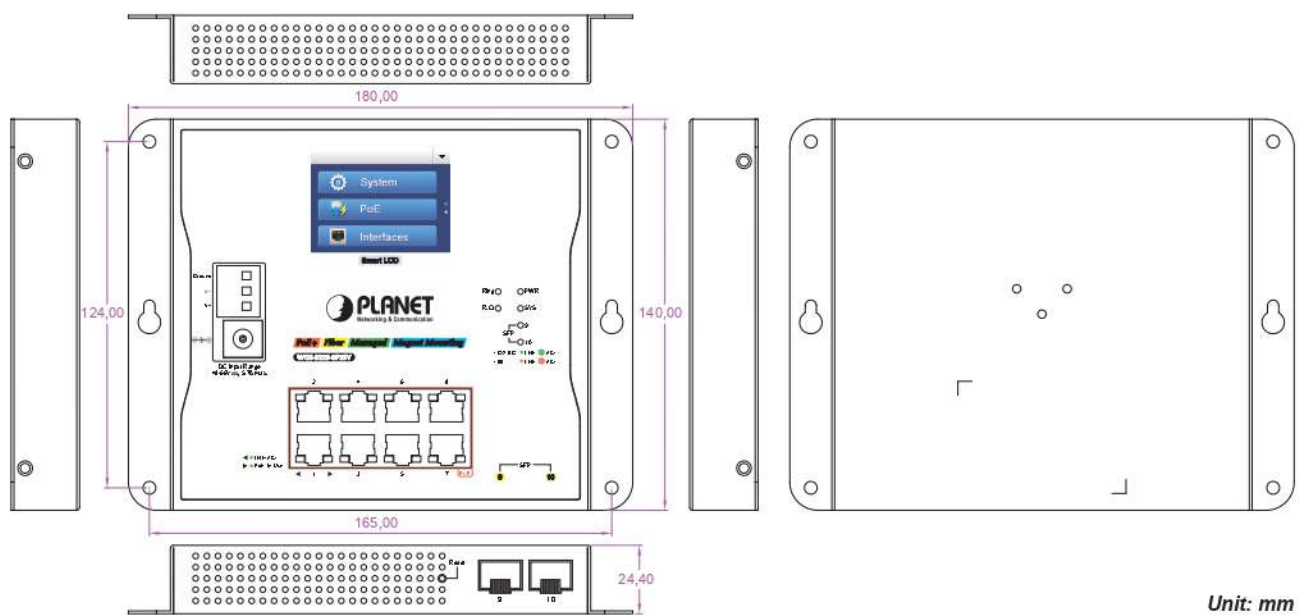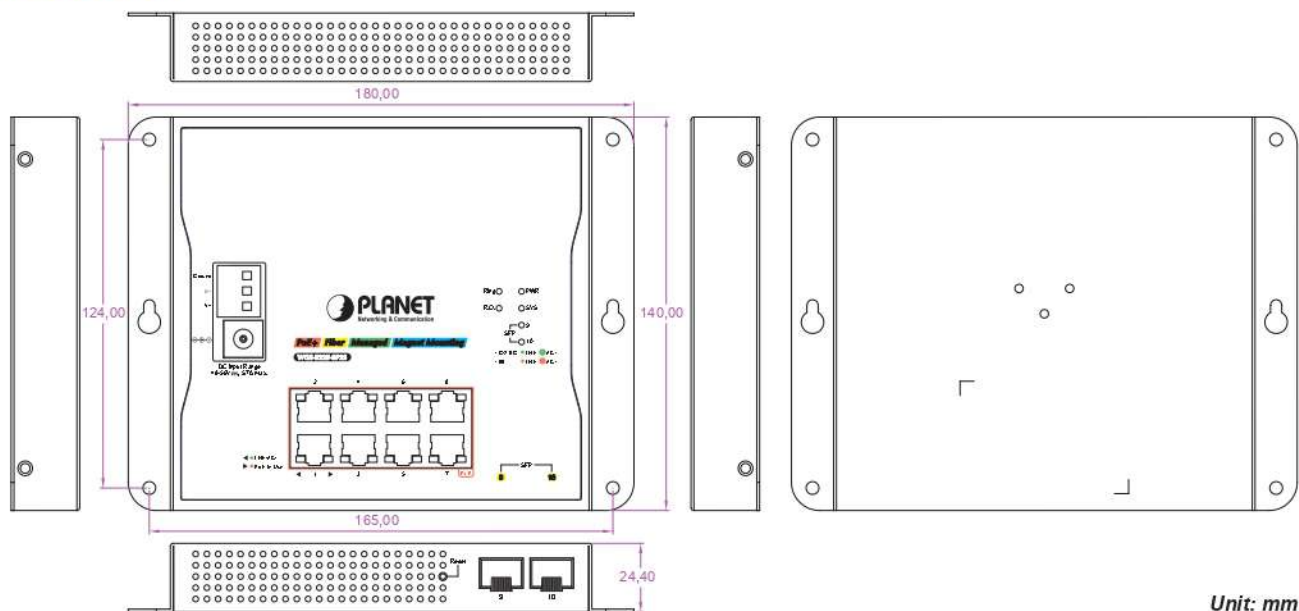|	
Port Configuration	Port disable/enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow control disable/enable Power saving mode control
Port Status	Display each port's speed duplex mode, link status, flow control status, auto negotiation status, trunk status
Port Mirroring	TX/RX/both 1 to 1 monitor
VLAN	802.1Q tag-based VLAN, up to 4K VLAN groups Q-in-Q tunneling Private VLAN Edge MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) Up to 4K VLAN groups, out of 4094 VLAN IDs
Link Aggregation	IEEE 802.3ad LACP/static 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 (v1/v2/v3) snooping IGMP querier mode support Up to 255 multicast groups
MLD Snooping	MLD (v1/v2) snooping MLD querier mode support Up to 255 multicast groups
Bandwidth Control	Per port bandwidth control Ingress: 500Kb~1000Mbps Egress: 500Kb~1000Mbps
Ring	Supports ERPS, and complies with ITU-T G.8032 Supports major ring and sub-ring Recovery time < 10ms @ 3 units Recovery time < 50ms @ 16 units

Synchronization	IEEE 1588v2 PTP (Precision Time Protocol)
	  - Peer-to-peer transparent clock
	  - End-to-end transparent clock

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

Security Functions	
Access Control List	IPv4/IPv6 IP-based ACL/MAC-based ACL IPv4/IPv6 IP-based ACE/MAC-based ACE Up to 256 entries
Port Security	IEEE 802.1X – Port-based authentication Built-in RADIUS client to co-operate with RADIUS server RADIUS/TACACS+ user access authentication
MAC Security	IP-MAC port binding MAC filter Static MAC address
Enhanced Security	DHCP Snooping and DHCP Option82 STP BPDU guard, BPDU filtering and BPDU forwarding DoS attack prevention ARP inspection IP source guard
Layer 3 Functions	
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	Telnet/Web browser/SNMP v1, v2c
Secure Management Interfaces	SSHv2, TLS v1.2, SNMP v3
System Management	Firmware upgrade by HTTP/TFTP protocol through Ethernet network LLDP protocol SNTP PLANET Smart Discovery Utility PLANET NMS System and CloudViewer
Event Management	Remote/Local Syslog System log
SNMP MIBs	RFC 1213 MIB-II IF-MIB 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 2933 IGMP-STD-MIB RFC 3411 SNMP-Frameworks-MIB IEEE 802.1X PAE LLDP MAU-MIB

Standards Conformance

Regulatory Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC60068-2-32 (free fall) IEC60068-2-27 (shock) IEC60068-2-6 (vibration)
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 802.3x 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 802.3at Power over Ethernet Plus Power Source Equipment (WGS-5225-8P2S and WGS-5225-8P2SV) ITU-T G.8032 Ethernet Ring Protection Switching RFC 768 UDP RFC 768 UDP RFC 783 TFTP RFC 793 TCP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2

Environment

Operating Temperature	WGS-5225-8P2S: -40 ~ 75 degrees C WGS-5225-8T2SV/WGS-5225-8P2SV: -20 ~ 70 degrees C
Storage Temperature	WGS-5225-8P2S: -40 ~ 75 degrees C WGS-5225-8T2SV/WGS-5225-8P2SV: -20 ~ 70 degrees C
Humidity	5 ~ 95% (non-condensing)

Dimensions

Unit: mm

Unit: mm

Unit: mm

Ordering Information

WGS-5225-8P2S	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 1G/2.5G SFP Wall-mount Managed Switch
WGS-5225-8P2SV	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-port 1G/2.5G SFP Wall-mount Managed Switch with LCD Touch Screen
WGS-5225-8T2SV	Industrial L2+ 8-Port 10/100/1000T + 2-port 1G/2.5G SFP Wall-mount Managed Switch with LCD Touch Screen

Accessories

PWR-120-48	120W 48V DC Single Output Industrial DIN-rail Power Supply (-10 ~ 60 degrees C)
PWR-240-48	240W 48V DC Single Output Industrial DIN-rail Power Supply (-10 ~ 60 degrees C)
PWR-480-48	480W 48V DC Single Output Industrial DIN-rail Power Supply (-25 ~ 70 degrees C)

Related Products

WGS-5225-8UP2SV	Industrial L2+ 8-Port 10/100/1000T 802.3bt PoE + 2-Port 1G/2.5G SFP Wall-mount Managed Switch with LCD Touch Screen
WGS-804HPT	Industrial 8-Port 10/100/1000T Wall-mount Managed Switch with 4-Port PoE+ (-40~75 degrees C)
WGS-4215-16P2S	Industrial 16-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Wall-mounted Managed Switch
WGS-4215-8HP2S	Industrial 4-Port 10/100/1000T 802.3bt PoE + 4-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Wall-mount Managed Switch (-40~75 degrees C)
WGS-804HP	8-Port 10/100/1000T Wall Mounted Gigabit Ethernet Switch with 4-Port PoE+
WGS-814HP	Industrial 8-Port 10/100/1000T Wall-mounted Gigabit Switch with 4-Port PoE+
WGS-818HP	Industrial 8-Port 10/100/1000T Wall-mounted Gigabit PoE+ Switch

Available Modules for WGS-5225-Series

MGB-2G Series Transceiver	2500BASE-SX/LX Transceiver
MGB-Series Transceiver	1000BASE-SX/LX Transceiver
MFB-Series Transceiver	100BASE-FX SFP Transceiver

FC CE **WGS-5225-8P2S/WGS-5225-8P2SV/WGS-5225-8T2SV**