

Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 1G/2.5G SFP Managed Ethernet Switch Series



Advanced Manageable PoE Solution for Hardened Environment

PLANET IGS-5225 L2+ Industrial Managed PoE+ Switch series, featuring 8 10/100/1000BASE-T 802.3at PoE+ ports with each port powering up to 36 watts, and two 100/1000/ 2500 BASE-X SFP ports in an IP30 rugged metal case, can be installed in any difficult environment. It provides user-friendly yet advanced IPv6/IPv4 management interfaces, abundant L2/L4 switching functions, Layer 3 static routing capability, and advanced ITU-G.8032 ERPS Ring technology to improve the rapid self-recovery capability and PLANET intelligent PoE functions for controlling the PoE outdoor IP surveillance and wireless network applications. It is able to operate reliably, stably and quietly in the temperature range from -40 to 75 degrees C.



Redundant Ring, Fast Recovery for Critical Network Applications

The IGS-5225 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 simple Ring network, the recovery time of data link can be as fast as 10ms.

Physical Port

- 8 10/100/1000BASE-T Gigabit Ethernet RJ45 ports with IEEE
 802.3at PoE+ Injector function
- 2 100/1000/2500BASE-X SFP ports for SFP type auto detection
- 2 10/100/1000BASE-T Gigabit Ethernet RJ45 ports (IGS-5225-8P2T2S)
- · One RJ45 console interface for basic management and setup

Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet Plus/endspan PSE
- Up to 8 IEEE 802.3af/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 100m
- · PoE management features
 - PoE admin-mode control
 - PoE management mode selection
 - PoE Legacy mode selection
 - PoE Budget setup option
 - Per port PoE function enable/disable
 - PoE port power feeding priority
 - Per PoE port power limit
 - PoE Port Status monitoring
 - PD classification detection
 - Sequence port PoE
 - PoE extend mode control to support power feeding up to a distance of up to 160 meters
- Intelligent PoE features
 - Temperature threshold control
 - PoE usage threshold control
 - PoE schedule
 - PD alive check
 - LLDP PoE Neighbors
- Industrial Protocol
- · Modbus TCP for real-time monitoring in the SCADA system
- IEEE 1588v2 PTP (Precision Time Protocol) transparent clock mode

Industrial Case and Installation

- IP30 aluminum case
- · DIN-rail or wall-mount design
- 48~54V DC, redundant power with reverse polarity protection



Couldoor PoE IP Camera Outdoor PoE IP Camera Recovery time < 10ms Natwork Video Recorder

High Power PoE for Security and Public Service Applications

As the whole system comes with a total 240-watt PoE budget, the IGS-5225 PoE Series is designed specifically to satisfy the growing demand of higher power consuming network PDs (powered devices) such as multi-channel (802.11n/ac/ax) wireless LAN access points, PTZ (pan, tilt, zoom) speed dome network cameras and other PoE network devices.

Intelligent Alive Check for Powered Device

The IGS-5225 PoE Series can be configured to monitor connected PD's status in real time via ping action. Once the PD stops working and responding, the IGS-5225 PoE Series will recycle the PoE port power and bring the PD back to work. It also greatly enhances the reliability in that the PoE port will reset the PD power, thus reducing administrator's management burden.

PoE PD Alive Check



PoE Schedule for Energy Savings

Under the trend of energy savings worldwide and contributing to environmental protection on the Earth, the IGS-5225 PoE Series can effectively control the power supply besides its capability of giving high watts power. The built-in "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.



- 12~54V DC, redundant power with reverse polarity protection (IGS-5225-8P4S-12V only)
- · Supports 6KV DC Ethernet ESD protection
- · -40 to 75 degrees C operating temperature

Digital Input and Digital Output

- · 2 digital input (DI)
- · 2 digital output (DO)
- Integrate sensors into auto alarm system
- · Transfer alarm to IP network via email and SNMP trap

Layer 3 IP Routing Features

- · Supports maximum 32 static routes and route summarization
- · Routing interface provides per VLAN routing mode

Layer 2 Features

- · Storm Control support
 - Broadcast/Multicast/Unicast
- Supports VLAN
 - IEEE 802.1Q tagged VLAN
 - Supports provider bridging (VLAN Q-in-Q, IEEE 802.1ad)
 - Private VLAN Edge (PVE)
 - Port Isolation
 - MAC-based VLAN
 - IP Subnet-based VLAN
 - Protocol-based VLAN
 - VLAN Translation
 - Voice VLAN
 - GVRP

· 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 Filtering/BPDU Guard
- · Supports Link Aggregation
 - 802.3ad Link Aggregation Control Protocol (LACP)
 - Cisco ether-channel (static trunk)
 - Maximum 6 trunk groups with 4 ports per trunk group
 - Up to 8Gbps bandwidth (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
- · 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)
- IEEE 802.3ah OAM



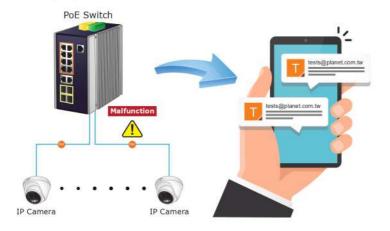
Scheduled Power Recycling

The IGS-5225 PoE Series 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.



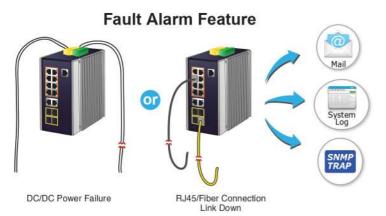
SMTP/SNMP Trap Event Alert

The IGS-5225 PoE 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.



Effective Alarm Alert for Better Protection

The IGS-5225 PoE Series supports a Fault Alarm feature which can alert the users when there is something wrong with the switches. With this ideal feature, the users would not have to waste time finding where the problem is. It will help to save time and human resource.



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

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
- · MVR (Multicast VLAN Registration)

Security

- Authentication
 - IEEE 802.1x port-based/MAC-based network access authentication
 - Built-in RADIUS client to co-operate with the RADIUS servers
 - TACACS+ login users access authentication
 - RADIUS / TACACS+ users access authentication
 - Guest VLAN assigns clients to a restricted VLAN with limited services
- Access Control List
 - IP-based Access Control List (ACL)
- MAC-based Access Control List
- · Source MAC/IP address binding
- · DHCP Snooping to filter un-trusted 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
 - Web switch management
 - Console and Telnet Command Line Interface
 - SNMP v1 and v2c switch management
 - SSHv2, TLSv1.2 and SNMP v3 secure access
- SNMP Management
 - Four RMON groups (history, statistics, alarms, and events)
 - SNMP trap for interface Link Up and Link Down notification



Digital Input and Digital Output for External Alarm

The IGS-5225 PoE Series supports Digital Input and Digital Output on its front panel. This external alarm enables users to use Digital Input to detect and log external device status (such as door intrusion detector), and send event alarm to the administrators. The Digital Output could be used to alarm the administrators if the IGS-5225 PoE Series port shows link down, link up or power failure.

Digital Input







Digital Output





Convenient and Smart ONVIF Devices with Detection Feature

PLANET has developed an awesome feature — ONVIF Support — which is specifically designed for cooperating with video IP surveillances. From the IGS-5225 PoE Series 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; the PoE reboot can be controlled from the GUI.

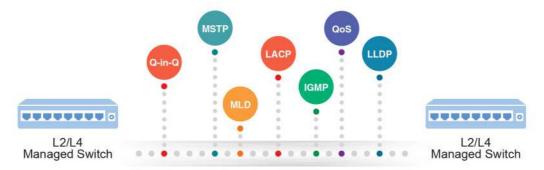


- IPv6 IP Address/NTP/DNS management
- · Built-in Trivial File Transfer Protocol (TFTP) client
- · BOOTP and DHCP for IP address assignment
- · System Maintenance
 - Firmware upload/download via HTTP
 - Reset button for system reboot or reset to factory default
 - Dual Images
- DHCP Relay and DHCP Option82
- DHCP Server
- · User Privilege levels control
- · NTP (Network Time Protocol)
- UPnP
- Network Diagnostic
 - ICMPv6/ICMPv4 Remote Ping
 - Cable Diagnostic technology provides the mechanism to detect and report potential cabling issues
 - SFP-DDM (Digital Diagnostic Monitor)
- SMTP, Syslog and SNMP trap remote alarm
- · Local system Log
- Provides ONVIF for co-operating with PLANET video IP surveillance
- · PLANET Smart Discovery Utility for deployment management
- PLANET NMS system and CloudViewer for deployment management



Robust Layer 2 Features

The IGS-5225 PoE Series can be programmed for advanced switch management functions such as dynamic port link aggregation, Q-in-Q VLAN, private VLAN, Rapid Spanning Tree Protocol, Layer 2 to Layer 4 QoS, bandwidth control and IGMP snooping. The IGS-5225 PoE Series provides 802.1Q tagged VLAN, and the VLAN groups allowed will be maximally up to 4K. Via aggregation of supporting ports, the IGS-5225 PoE Series allows the operation of a high-speed trunk combining multiple ports. It enables a maximum of up to 10 trunk groups with 4 ports per trunk group, and supports fail-over as well.



Network with Cybersecurity Helps Minimize Security Risks

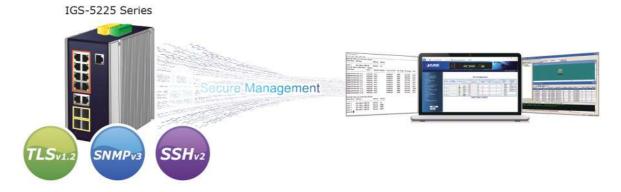
The IGS-5225 PoE Series comes with enhanced cybersecurity to fend off cyberthreats and cyberattacks. It supports SSHv2 and TLSv1.2 protocols to provide strong protection against advanced threats. Served as a key point to transmit data to customer's critical equipment in a business network, the cybersecurity feature of the IGS-5225 PoE Series protects the switch management and enhances the security of the mission-critical network without any extra deployment cost and effort.



Efficient Management

For efficient management, the IGS-5225 PoE Series is equipped with Command line, Web and SNMP management interfaces.

- With the built-in **Web-based** management interface, the IGS-5225 PoE Series offers an easy-to-use, platform-independent management and configuration facility.
- For text-based management, it can be accessed via Telnet and the console port.
- For standard-based monitor and management software, it offers SNMPv3 connection which encrypts the packet content at each session for secure remote management.





Powerful Security from Layer 2 to Layer 4

The IGS-5225 PoE Series offers 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 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.

Advanced IP Network Protection

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

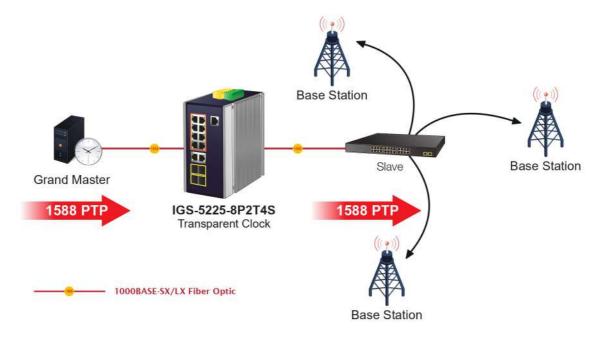
Modbus TCP Provides Flexible Network Connectivity for Factory Automation

With the supported Modbus TCP/IP protocol, the IGS-5225 PoE 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.

1588 Time Protocol for Industrial Computing Networks

The IGS-5225 PoE 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



Flexibility and Extension Solution

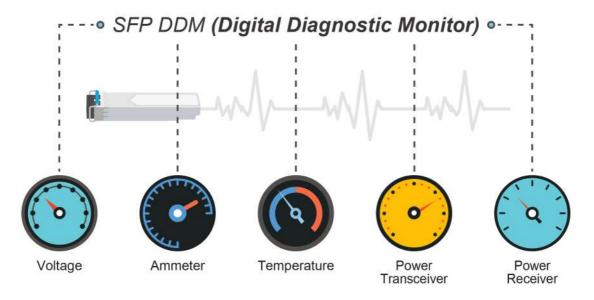
The two SFP ports built in the IGS-5225 PoE Series support multi-speed, 100BASE-FX, 1000BASE-SX/LX and 2500BASE-X SFP (Small Form-factor Pluggable) fiber-optic modules, meaning the administrator now can flexibly choose the suitable SFP transceiver according to not only the transmission distance but also the transmission speed required.

The distance can be extended from 300 meters to 2km (multi-mode fiber) and up 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 IGS-5225 PoE Series supports 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.



Convenient and Reliable Power System

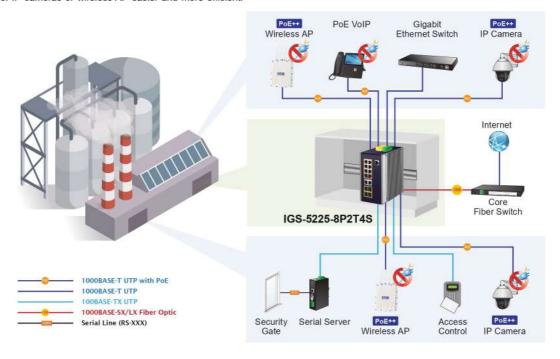
To facilitate the 802.3at PoE usage with commonly-used 12~54V DC power input for transportation and industrial-level applications, the IGS-5225-8P4S-12V adopts the 12~54V DC to 54V power boost technology to solve power source issue but does not require special power supplies. Its wide-ranging voltages design is suitable for worldwide operability with high availability applications requiring dual or backup power inputs.



Applications

Industrial Area Department/Workgroup PoE Switch

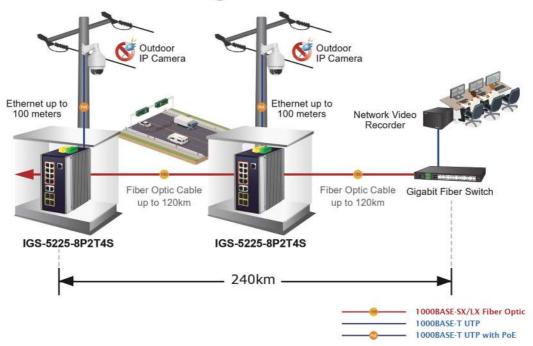
Providing up to 8 PoE+, in-line power interfaces, the IGS-5225 PoE Series can easily build a power centrally controlled for IP phone system, IP camera system, or wireless AP group for Industrial network. For instance, 8 PoE IP cameras or wireless access points can be easily installed around the corner in the industrial environment for surveillance demands or for a wireless roaming network. Without the power-socket limitation, the IGS-5225 PoE Series makes the installation of IP cameras or wireless AP easier and more efficient.



Perfect Integration Solution for IP PoE Camera and NVR System

The IGS-5225 PoE Series provides eight 10/100/1000BASE-T 802.3at PoE+ ports which can offer sufficient PoE power to 8 PoE IP cameras at the same time. In addition, with the two 100/1000/2500BASE-X SFP interfaces, the IGS-5225 PoE Series can connect to a core fiber switch and send video streams to an NVR and monitoring center. Through the high-performance switch architecture, the IGS-5225 PoE Series facilitates the recorded video files from the 8 PoE+ IP cameras to be saved in the NVR systems. Furthermore, the NVR systems can be controlled and monitored in both the local LAN and the remote site via Internet. The IGS-5225 PoE Series undoubtedly brings an ideal secure surveillance system at a lower total cost.

Extending Ethernet Distance





Specifications

Hardware Version					
Management Man		IGS-5225-8P4S-12V	IGS-5225-8P4S	IGS-5225-8P2T2S	IGS-5225-8P2T4S
Copper Ports					
Ports	Hardware Version				v2 10 10/100/1000BASE-T
Interfaces (Port-1 and Port-1 to)	Copper Ports				RJ45 auto-MDI/MDI-X ports
1 x R.145-to-RS232 serial port (115200, 8, N, 1)	SFP Fiber Ports	interfaces (Port-9 and Port-10) 2 100/1000/2500BASE-X SFP interfaces (Port-11	interfaces (Port-9 and Port-10) 2 100/1000/2500BASE-X SFP interfaces (Port-11	SFP interfaces (Port-11	2 100/1000/2500BASE- SFP interfaces (Port-13
Main March	PoE Injector Ports	8 ports with 802.3at/af PoE	injector function with Port-1	to Port-8	
See Mamory Seminory See System reboot	Console	1 x RJ45-to-RS232 serial p	oort (115200, 8, N, 1)		
Sect Button Sect System reboot	RAM	128MBytes			
Seec Factory default	Flash Memory	64MBytes			
SSD Protection	Reset Button				
P30 aluminum case	ESD Protection				
Installation DIN-rall kit and wall-mount kit					
Removable 6-pin terminal block for power input			kit		
Removable 6-pin terminal block for DI/DO interface Pin 1/2 for D1 1 8.2, Pin 3/4 for DO 1 8.2, Pin 5/6 for GND	installation.	Removable 6-pin terminal block for power input			
2 digital input (DI)	Connector	Removable 6-pin terminal block for DI/DO interface			
2 digital input Level to : 24V~2.1V (±0.1V) Level to : 24V~2.1V (±0.1V) Input load to 24V DC, 10mA max.	Alarm	One relay output for power	failure. Alarm relay current c	arry ability: 1A @ 24V DC	
Digital Output Open collector to 24V DC, 100mA max.	Digital Input	Level 0: -24V~2.1V (±0.1V) Level 1: 2.1V~24V (±0.1V)			
Max 1128g	Digital Output				
Dual 12~54V DC	Dimensions (W x D x H)	76.8 x 107.3 x 152 mm			
Max. 7.28 watts/22.11BTU (Power on without any connection)	Weight	1128g	1130g	1128g	1144g
Power Consumption (Power on without any connection) (Power on without connection) (Full loading with PoE function) (Fun	Power Requirements	Dual 12~54V DC	Dual 48~54V DC (>51V DC	for PoE+ output recommend	ded)
Max. 249 watts/849.09BTU (Full loading with PoE function) watts/849.09BTU (Full loading with PoE function) watts/896.8BTU (Full loading with PoE function) function) watts/896.8BTU (Full loading with PoE function) watts/896.8BTU (Function) watts/896.8	2	(Power on without any	(Power on without any	(Power on without any	Max. 6.48watts/22 BTU (Power on without any connection)
System: Power 1 (Green) Power 2 (Green) Alarm (Red) Ring (Green) Ring Owner (Green) DIDO (Red) Per 10/100/1000T RJ45 PoE+ Ports: PoE-in-Use (Amber) LNK/ACT (Green) Per 10/100/1000T RJ45Ports: 1000 LNK/ACT (Green) Per 10/100/1000T RJ45Ports: 1000 LNK/ACT (Green) 100 LNK/ACT (Amber) Per SFP Interface: 10/100 LNK/ACT (Amber) 1G/2.5G LNK/ACT (Green) Switching Switch Architecture	Power Consumption	watts/849.09BTU (Full	watts/896.8BTU (Full	(Full loading with PoE	Max. 261W/890 BTU(Fu Loading)
Switching Switch Architecture Store-and-Forward Switch Fabric 30Gbps/non-blocking 30Gbps/non-blocking 30Gbps/non-blocking 30Gbps/non-blocking 30Gbps/non-blocking 322.32Mpps@ 64 bytes 22.32Mpps@ 64 bytes 22.32Mpps@ 64 bytes	LED Indicator	Power 1 (Green) Power 2 (Green) Alarm (Red) Ring (Green) Ring Owner (Green) DIDO (Red) Per 10/100/1000T RJ45 Po PoE-in-Use (Amber) LNK/ACT (Green) Per 10/100/1000T RJ45Po 1000 LNK/ACT (Green) 100 LNK/ACT (Amber) Per SFP Interface: 10/100 LNK/ACT (Amber)	rts:		
Switch Architecture Store-and-Forward Switch Fabric 30Gbps/non-blocking 30Gbps/non-blocking 30Gbps/non-blocking 34Gbps/non-block 22.32Mpps@ 64 bytes 22.32Mpps@ 64 bytes 25.30Mpps@ 64bytes	Switching	, 5, 5, 5 5 11, 1, 10 1 (0100			
Switch Fabric 30Gbps/non-blocking 30Gbps/non-blocking 30Gbps/non-blocking 34Gbps/non-blocking 34Gbps/non-blocking 34Gbps/non-blocking 22.32Mpps@ 64 bytes 22.32Mpps@ 64 bytes 25.30Mpps@ 64bytes		Store and England			
22.32Mpps@ 64 bytes 22.32Mpps@ 64 bytes 22.32Mpps@ 64 bytes 25.30Mpps@ 64bytes			20Chne/non blesting	30Chne/non bleskins	24Ghne/non blacking
packet packet packet packet		22.32Mpps@ 64 bytes	22.32Mpps@ 64 bytes	22.32Mpps@ 64 bytes	25.30Mpps@ 64bytes
	J. F. W. 2007	packet	packet	packet	packet



6.dd T-bl-	81/ t-i	
Address Table Shared Data Buffer	4Mbits	ee address learning and aging
Shared Data Burier		or full dupley
Flow Control	IEEE 802.3x pause frame for full duplex Back pressure for half duplex	
Jumbo Frame	9K bytes	
Power Over Ethernet	*	
	IEEE 802.3at Power over E	thernet Plus/PSE
PoE Standard	Backward compatible with 8	802.3af Power over Ethernet
PoE Power Supply Type	End-span	
Power Pin Assignment	1/2(+), 3/6(-)	
		IEEE 802.3af Standard
PoE Power Output	Per port 54V DC, max. 36 watts	- Per port 48V~51V DC (depending on the power supply), max. 15.4 watts IEEE 802.3at Standard - Per port 52V~54V DC (depending on the power supply), max. 36 watts
PoE Power Budget	12V power input - 60W maximum 24V power input -120W maximum 48V~54V power input - 240W maximum	48V power input - 120W maximum (depending on power input) 52~54V power input - 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 Functions		
Active PoE Device Alive Detection	Yes	
PoE Power Recycling	Yes, daily or predeinded so	hedule
PoE Schedule	4 schedule profiles	
PoE Extend Mode	Yes, max. 160 to 200 meter	rs
PoE System Management	System PoE Admin control Total PoE power budget control PoE Legacy mode Over-temperature threshold alarm PoE usage threshold alarm	
PoE Port Management	Port Enable/Disable/Schedule Port Priority	
Layer 3 Functions	The Property In Control	
IP Interfaces	Max. 8 VLAN interfaces	
Routing Table	Max. 32 routing entries	
Routing Protocols	IPv4 software static routing	
-	IPv6 software static routing	
Layer 2 Function		
Port Configuration	Port disable/enable Auto-negotiation 10/100/10 Flow control disable/enable Power saving mode control	
Port Status	Display each port's speed of	duplex mode, link status, flow control status, auto negotiation status, trunk status
Port Mirroring	TX / RX / Both Many-to-1 monitor	
VLAN	IEEE 802.1Q tag-based VLAN IEEE 802.1ad Q-in-Q tunneling Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN VLAN Translation Voice VLAN MVR (Multicast VLAN Registration) GVRP Up to 4K VLAN groups, out of 4094 VLAN IDs	
Link Aggregation	IEEE 802.3ad LACP/static Supports 6 trunk groups with	
Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol	
		27/



	IPv4 IGMP (v1/v2/v3) snooping
IGMP Snooping	IPv4 IGMP querier mode support
	Up to 255 multicast groups
MLD Snooping	IPv6 MLD (v1/v2) snooping
	IPv6 MLD querier mode support
	Up to 255 multicast groups
	Per port bandwidth control
Bandwidth Control	Ingress: 500Kb~1000Mbps
	Egress: 500Kb~1000Mbps
RING	Supports ERPS, and complies with ITU-T G.8032
	Recovery time < 10ms
	IEEE 1588v2 PTP(Precision Time Protocol)
Synchronization	- Peer-to-peer transparent clock
	- End-to-end transparent clock
	Traffic classification based, strict priority and WRR
	8-level priority for switching
QoS	- Port number
	- 802.1p priority
	- 802.1Q VLAN tag
	- DSCP/TOS field in IP packet
Security Functions	
	IP-based ACL/MAC-based ACL
	ACL based on:
	- MAC Address
	- IP Address
Access Control List	- Ethertype
	- Protocol Type
	- VLAN ID
	- DSCP
	- 802.1p Priority
	Up to 256 entries
	Port Security
Security	IP source guard
	Dynamic ARP inspection
	Command line authority control based on user level
AAA	RADIUS client
	TACACS+ client
	IEEE 802.1x port-based network access control
Network Access Control	MAC-based authentication
	Local/RADIUS authentication
Switch Management	
Basic Management Interfaces	Console; Telnet; Web browser; SNMP v1, v2c
Secure Management Interfaces	SSHv2, TLS v1.2, SNMP v3
	Firmware upgrade by HTTP protocol through Ethernet network
	Configuration upload/download through HTTP
System Management	Remote syslog
	System log
	LLDP protocol
	NTP
	PLANET Smart Discovery Utility
	PLANET CloudViewer app
	Remote syslog
Event Management	Local system log
	SMTP
	ONVIF device discovery
ONVIF	ONVIF device monitoring

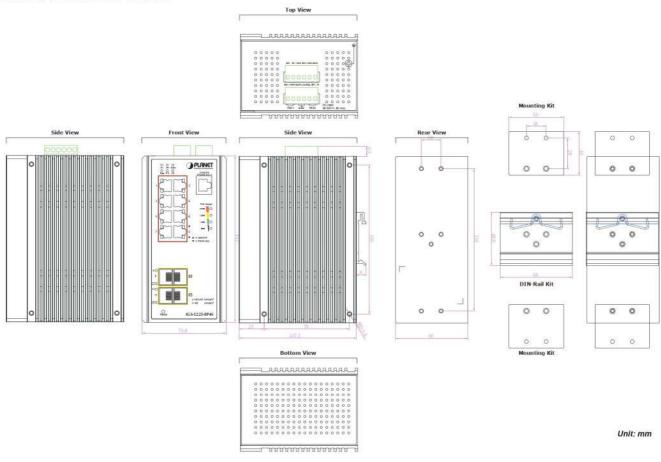


SNMP MIBs	RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2665 Ether-Like MIB RFC 2737 Entity MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2618 RADIUS Client MIB RFC 3411 SNMP-Frameworks-MIB IEEE 802.1X PAE LLDP MAU-MIB Power over Ethernet MIB
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 to 10BASE-T IEEE 802.3 to 10BASE-TX/100BASE-FX IEEE 802.3 to Gigabit SX/LX IEEE 802.3 to Gigabit 1000T IEEE 802.3 to Gigabit 1000T IEEE 802.3 to Fore the With LACP IEEE 802.1 to Spanning Tree Protocol IEEE 802.1 to Spanning Tree Protocol IEEE 802.1 to Rapid Spanning Tree Protocol IEEE 802.1 to Class of Service IEEE 802.2 to Class of Service IEEE 802.3 to Class of Service IEEE 802.1 to Clas
Environment	
Operating Temperature	-40 ~ 75 degrees C
Storage Temperature	-40 ~ 85 degrees C
Humidity	5 ~ 95% (non-condensing)

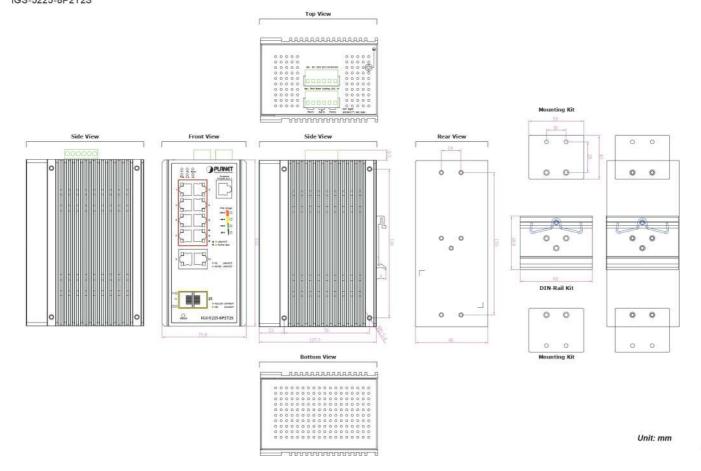


Dimensions

IGS-5225-8P4S and IGS-5225-8P4S-12V



IGS-5225-8P2T2S





Ordering Information

IGS-5225-8P4S	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1G SFP + 2-Port 1G/2.5G SFP Managed Ethernet Switch
IGS-5225-8P4S-12V	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1G SFP + 2-Port 100/1G/2.5G SFP Managed Ethernet Switch w/ 12V Booster
IGS-5225-8P2T2S	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 1G/2.5G SFP Managed Ethernet Switch
IGS-5225-8P2T4S	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 100/1G SFP + 2-Port 1G/2.5G SFP Managed Ethernet Switch

Related Products

IGS-5225-8P2S2X	L3 Industrial 8-Port 10/100/1000T 802.3at PoE + 4-Port 100/1000X SFP + 2-Port 10G SFP+ Managed Ethernet Switch
IGS-6325-16P4S	L3 Industrial 16-Port 10/100/1000T 802.3at PoE + 4-Port 100/1000X SFP Managed Ethernet Switch (-40~75 degrees C)
IGS-20160HPT	L3 Industrial 16-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 1G/2.5G SFP Managed Ethernet Switch
IGS-10020HPT	L2+ Industrial 8-Port 10/100/1000T 802.3at PoE + 2-Port 1G/2.5G SFP Managed Ethernet Switch



Available Modules

MGB2G-Series Transceiver	2500BASE-SX/LX Transceiver
MGB-Series Transceiver	1000BASE-SX/LX Transceiver
MFB-Series Transceiver	100BASE-FX SFP Transceiver

Related Power Supply

PWR-480-48	48V, 480W Din-rail Power Supply (NDR-480-48, adjustable 48-56V DC Output)
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