

IGS-5225-8P2S2X

Industrial L3 8-Port 10/100/1000T 802.3at PoE + 2-Port 1G/2.5G SFP + 2-Port 10G SFP+ Managed Ethernet Switch Switch



Layer 3 Capability and 10G Uplinks

PLANET IGS-5225-8P2S2X is the **smallest 10G uplink Layer 3 managed PoE switch** preferably designed for industrial networks. Based on its **10Gbps** big pipe connectivity to core networks, the IGS-5225-8P2S2X, equipped with 8 Gigabit ports featuring **36-watt 802.3at PoE+** and **two 10Gbps SFP+** uplink slots, meets the demands of high power consumption and high bandwidth for 11ac Gigabit Wi-Fi APs and other PoE applications like those requiring heavy traffic loading.

With a rugged IP30 metal case and wide temperature range from -40 to 75 degrees C, the IGS-5225-8P2S2X is able to stably operate in heavy Industrial demanding environments. Thus, the IGS-5225-8P2S2X provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curbside traffic control cabinets. The IGS-5225-8P2S2X also allows either DIN-rail or wall mounting for efficient use of cabinet space.



Redundant Ring, Fast Recovery for Critical Network Applications

The IGS-5225-8P2S2X 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 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 mini-GBIC/SFP slots for SFP type
 auto detection
- 2 10GBASE-SR/LR SFP+ slots, backward compatible with 1000BASE-SX/LX/BX and 2500BASE-X SFP
- One RJ45 console interface for basic management and setup

Power over Ethernet

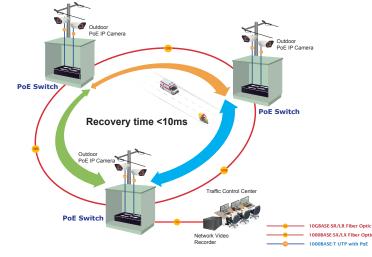
- Complies with IEEE 802.3at Power over Ethernet Plus/endspan PSE
- · Up to 8 IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 36 watts for each PoE port
- Auto detects powered device (PD)
- · Circuit protection prevents power interference between ports
- Remote power feeding up to 100m
- · PoE management features
 - Total PoE power budget control
 - Per port PoE function enable/disable
 - PoE admin-mode control
 - PoE port power feeding priority
 - Per PoE port power limit
 - PD classification detection
 - PoE extend mode supports power feeding at a distance of up to 200 meters
- Intelligent PoE features
 - Temperature threshold control
 - PoE usage threshold control
 - PD alive check
 - PoE schedule

Industrial Protocol

- · Modbus TCP for real-time monitoring in the SCADA system
- IEEE 1588v2 PTP (Precision Time Protocol) tramsparent clock mode
- · Industrial Case and Installation
- · IP30 aluminum case
- · DIN-rail and wall-mount designs
- · 48~54V DC, redundant power with reverse polarity protection
- Supports 6000V DC Ethernet ESD protection
- · -40 to 75 degrees C operating temperature



ERPS Ring for Video Transmission Redundancy



Flexible and Extendable 10Gb Ethernet Solution

10G Ethernet is a big leap in the evolution of Ethernet. Each of the 10G SFP+ slots in the IGS-5225-8P2S2X supports **triple speed** and **10GBASE-SR/LR**, **2500BASE-X or 1000BASE-SX/LX**, providing broad bandwidth and powerful processing capacity. With its 2-port, 10G Ethernet link capability, 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.

Intelligent LED Indicator for Real-time PoE Usage

The IGS-5225-8P2S2X helps users to monitor current status of PoE power usage easily and efficiently by its advanced LED indication. The front panel of the Industrial Gigabit PoE+ Switch has four orange LEDs indicating 60W, 120W, 180W and 240W of PoE power usage.



Intelligent Alive Check for Powered Device

The IGS-5225-8P2S2X PoE Switch can be configured to monitor connected PD's status in real time via ping action. Once the PD stops working and responding, the IGS-5225-8P2S2X 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.

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

- IP dynamic routing protocol supports RIP, OSPFv2 and OSPFv3
- · Supports maximum 128 static routes and route summarization
- IPv4 dynamic routing protocol supports OSPFv2
- IPv4/IPv6 hardware static routing
- · 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 that 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 4095 VLAN IDs
 - Provider Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)
 - Private VLAN Edge (PVE)
 - Protocol-based VLAN
 - MAC-based VLAN
 - Voice VLAN
 - GVRP (GARP VLAN Registration Protocol)
- 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)
 - Maximum 6 trunk groups with 4 ports per trunk group
- Up to 16Gbps 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



Step 1 PoE Device Status Good!! Ping Request Ping Request Ping Echo Ping Request Step 3 Restart PoE device if without response Alarm Notification PoE ON OFF

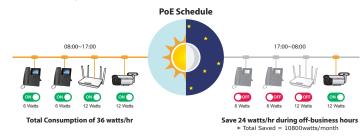
Scheduled Power Recycling

The IGS-5225-8P2S2X 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 Savings

Under the trend of energy savings worldwide and contributing to environmental protection on the Earth, the IGS-5225-8P2S2X 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.



PoE Usage Monitoring

Via the power usage chart in the web management interface, the IGS-5225-8P2S2X 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.

- · Supports G.8032 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)

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

Multicast

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

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
- · 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



Convenient and Smart ONVIF Devices with Detection Feature

PLANET has newly developed an awesome feature -- ONVIF Support -- which is specifically designed for cooperating with video IP surveillances. From the IGS-5225-8P2S2X 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 remotely monitor what is going on in the production line. Moreover, you can get real-time surveillance's information and online/offline status, and can have PoE reboot control from GUI.

1588 Time Protocol for Industrial Computing Networks

The IGS-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.

Layer 3 Network Routing Support

The IGS-5225-8P2S2X allows administrators to boost network efficiency by configuring Layer 3 IPv4/IPv6 VLAN static routing manually or automatically through the **Routing Information Protocol (RIP)** or **Open Shortest Path First (OSPF)** settings.

- The RIP uses hop count as a routing metric and prevents routing loops by setting a limit on the number of hops allowed in a path from source to destination.
- The OSPF is an interior dynamic routing protocol for autonomous systems based on link state. The protocol creates a database of link states 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.

Cybersecurity Network Solution to Minimize Security Risks

The IGS-5225-8P2S2X comes with enhanced cybersecurity 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 cybersecurity feature of the IGS-5225-8P2S2X protects the switch management and enhances the security of the mission-critical network without any extra deployment cost and effort.



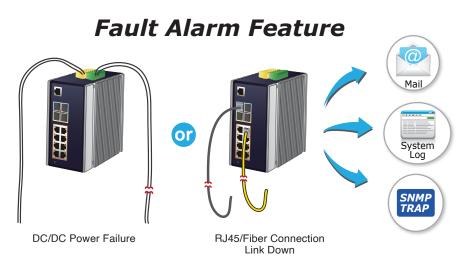
Management

- IPv4 and IPv6 dual stack management
- Switch Management Interfaces
 - Console/Telnet Command Line Interface
 - Web switch management
 - SNMP v1 and v2c switch management
 - SSHv2, 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
- 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 and DHCP Option 82
- DHCP Server
- User Privilege levels control
- Network Time Protocol (NTP)
- SFP-DDM (Digital Diagnostic Monitor)
- Network Diagnositc
 - ICMPv6/ICMPv4 Remote Ping
 - Cable diagnostic technology provides the mechanism to detect and report potential cabling issues
- PLANET UNI-NMS (Universal Network Management) and CloudViewer app for deployment management
- Provides ONVIF for cooperating with PLANET IP video surveillance
- SMTP/Syslog remote alarm
- System Log



Effective Alarm Alert for Better Protection

The IGS-5225 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.



SMTP/SNMP Trap Event Alert

The IGS-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.

SMTP/SNMP Trap Event Alert





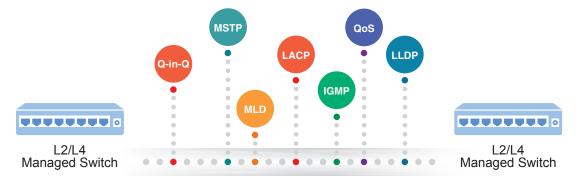
Digital Input and Digital Output for External Alarm

The IGS-5225 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 series port shows link down, link up or power failure.

Digital Input Security OK!! **Alarm Warning** Alarm Messaging Uplink Enclosure Enclosure SNM TRAF Door Detector Door Detector Mail System Loo (Door Closed) (Door Open) **Digital Output** 17 RJ45 Cable Fiber Cable DC Power Failure Link Down Link Down

Robust Layer 2 to Layer 4 Features

The IGS-5225 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 series provides 802.1Q tagged VLAN, and the VLAN groups allowed will be maximally up to 4000. Via aggregation of supporting ports, the IGS-5225-8P2S2X allows the operation of a high-speed trunk combining multiple ports. It enables a maximum of up to 6 trunk groups with 4 ports per trunk group, and supports fail-over as well.





User-friendly Secure Management

For efficient management, the IGS-5225 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.
- 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.



Remote Management Solution

PLANET's **Universal Network Management System (UNI-NMS)** and CloudViewer app support IT staff by remotely managing all network devices and monitoring PDs' operational statuses. Thus, they're designed for both the enterprises and industries where deployments of PDs can be as remote as possible, without having to go to the actual location once a bug or faulty condition is found. With the UNI-NMS or CloudViewerPro app, all kinds of businesses can now be speedily and efficiently managed from one platform.



Powerful Security

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

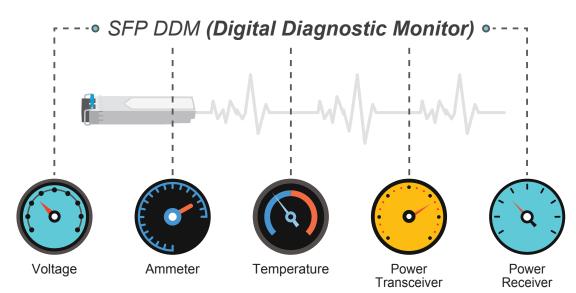
Flexibility and Extension Solution

The additional two mini-GBIC slots built in the IGS-5225-8P2S2X support triple-speed 100/1000/2500BASE-X SFP (small form-factor pluggable) fiberoptic 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 2 kilometers (multi-mode fiber) and 10/20/40/60/80/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications to uplink to backbone switch and monitoring center in long distance.



Intelligent SFP Diagnosis Mechanism

The IGS-5225 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.



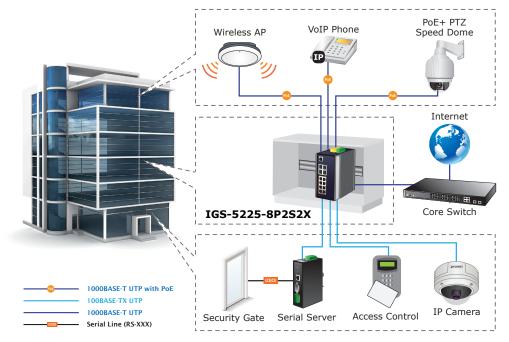
Modbus TCP provides Flexible Network Connectivity for Factory Automation

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

Applications

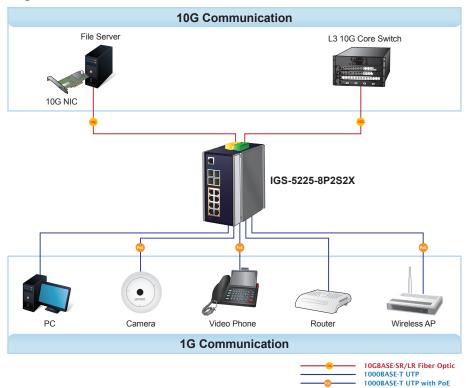
Industrial Area Department/Workgroup PoE Switch

Providing up to 8 PoE+, in-line power interfaces, the IGS-5225-8P2S2X 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-5225-8P2S2X makes the installation of IP cameras or wireless AP easier and more efficient.



Excellent 10Gbps High Bandwidth Solution to Core Network

The IGS-5225-8P2S2X performs 66Gbps non-blocking switch fabric, so it can easily provide a local 10Gbps high bandwidth Ethernet network for the backbone of your department. With the two built-in SFP+ ports, the IGS-5225-8P2S2X provides the uplink to the backbone network through the 10G Ethernet LR/SR SFP+ modules. It further improves the network efficiency and protects the network clients by offering the security and QoS features.



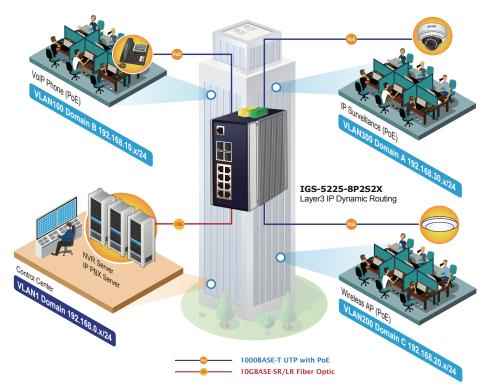
High Performance Server Service



Layer 3 VLAN Routing and 10G Uplink Application

With the built-in, robust Layer 3 routing protocols, the IGS-5225-8P2S2X ensures reliable routing between VLANs and network segments. The routing protocols can be applied by VLAN interface with up to 32 routing entries. The IGS-5225-8P2S2X, certainly an ideal solution for industries, offers greater security, control and bandwidth conservation, and high-speed uplink.

VLAN Routing + PoE Applications





Specifications

-			
Product	IGS-5225-8P2S2X		
Hardware Specifications			
Hardware Version	4		
Copper Ports	8 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports		
	2 1000BASE-SX/LX/BX SFP	2 1000BASE-SX/LX/BX SFP interfaces (Port-9 and Port-10)	
SFP/mini-GBIC Slots	Compatible with 100BASE-FX and 2500BASE-X SFP		
	2 10GbBASE-SR/LR SFP+ i	2 10GbBASE-SR/LR SFP+ interfaces (Port-11 and Port-12)	
SFP+ Slots		Compatible with 1000BASE-SX/LX/BX and 2500BASE-X SFP transceiver	
PoE Injector Port		8 ports with 802.3at/af PoE injector function with Port-1 to Port-8	
Console		1 x RJ45-to-RS232 serial port (115200, 8, N, 1)	
	<pre>< 5 sec: System reboot</pre>		
Reset Button	> 5 sec: Factory default		
	Removable 6-pin terminal block for power input		
Connector		Pin 1/2 for Power 1, Pin 3/4 for fault alarm, Pin 5/6 for Power 2	
	Removable 6-pin terminal blo		
		for DO 1 & 2, Pin 5/6 for GND	
Alarm	One relay output for power fa	ailure. Alarm relay current carry ability: 1A @ 24V DC	
		Level 0: -24V~2.1V (±0.1V)	
DI & DO	2 Digital Input (DI):	Level 1: 2.1V~24V (±0.1V)	
		Input load to 24V DC, 10mA max.	
	2 Digital Output (DO):	Open collector to 24V DC, 100mA max.	
Installation	DIN rail kit and wall-mount ki	it	
Enclosure	IP30 aluminum case		
Dimensions (W x D x H)	76.8 x 107 x 152 mm		
Weight	1353 g		
	Max. 11.52 watts/39.31 BTL	Max. 11.52 watts/39.31 BTU (Power on without any connection)	
Power Consumption		(Full loading with PoE function)	
Power Requirements			
ESD Protection	6KV DC	Dual 48~54V DC (>51V DC for PoE+ output recommended)	
	System:		
LED Indicator	Power 1 (Green) Power 2 (Green) Fault Alarm (Red) Ring (Green) R.O. (Green) DIDO (Red) Per 10/100/1000T RJ45 Port: LNK/ACT (Green) PoE In-Use (Amber) Per 100/1000/2500BASE-X SFP Interface: 1G/2.5G LNK/ACT (Green) 100 LNK/ACT (Amber) Per SFP+ Interface: 1G/2.5G LNK/ACT (Green) 10G LNK/ACT (Amber)		
Switching Specifications			
Switch Architecture	Store-and-Forward		
Switch Fabric	66Gbps/non-blocking		
Throughput (packet per second)	49.107Mpps@ 64Bytes pack	ket	
Address Table	32K entries, automatic sourc	e address learning and aging	
Shared Data Buffer	16Mbits		
Flow Control	IEEE 802.3x pause frame fo Back pressure for half duple:	IEEE 802.3x pause frame for full duplex	
Jumbo Frame	10Kbytes		
Power Over Ethernet	·		
PoE Standard	IEEE 802.3at Power over Et	hernet Plus/PSE	
PoE Power Supply Type	End-span		
	· ·		
PoE Power Output	IEEE 802.3at Standard	- Per port 48V~51V DC (depending on the power supply), max. 15.4 watts	
	- Per port 51V~54V DC (de	pending on the power supply), max. 36 watts	



Power Pin Assignment		
	1/2(+), 3/6(-)	
PoE Power Budget	Dual power input: 240W maximum (depending on power input)	
Max. number of Class 2 PDs	8 units	
Max. number of Class 3 PDs	8 units	
Max. number of Class 4 PDs	8 units	
PoE Management Functions		
	PoE Port status monitoring	
PoE System Management	Total PoE power budget control	
	Over temperature protection	
	PoE usage threshold and temperature threshold	
	Per port remote PD IP address	
	4 actions	
PoE Device Live Detection	- None	
TOE Device Live Detection	- PD reboot	
	- PR reboot and alarm	
	Alarm	
PoE Power Recycling	Daily or predefined schedule	
PoE Schedule	4 schedule profiles	
PoE Extend Mode	Max. 200 meters	
Layer 3 Function		
IP Interfaces	Max. 128 VLAN interfaces	
	Max. 128 routing entries	
Routing Table	Max. 4K H/W routing table entries	
	IPv4 RIPv1/v2	
	IPv4 OSPFv2	
Routing Protocols	IPv4 hardware static routing	
Trouting Protocols	IPv6 OSPFv3	
	IPv6 hardware static routing	
Lover 2 Eurotion	If yo hardware statio routing	
Layer 2 Function		
	Port disable/enable	
Port Configuration	Auto-negotiation 10/100/1000Mbps full and half duplex mode selection	
	Flow control disable/enable	
	Port link capability control	
Port Status	Display each port's speed duplex mode, link status, flow control status, auto negotiation status, trunk status	
	TX/RX/Both	
Port Mirroring	Many-to-1 monitor	
5	RMirror – Remote Switched Port Analyzer (Cisco RSPAN)	
	Supports up to 5 sessions	
	IEEE 802.1Q tag-based VLAN	
	IEEE 802.1ad Q-in-Q tunneling	
	IEEE 002. Tad Q-II-Q turnening	
	Private VLAN Edge (PVE)	
	Private VLAN Edge (PVE) MAC-based VLAN	
VLAN	Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN	
VLAN	Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN	
VLAN	Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration)	
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Spanning Tree Protocol Link Aggregation	 Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) GVRP (GARP VLAN Registration Protocol) Up to 4K VLAN groups, out of 4094 VLAN IDs IEEE 802.1D Spanning Tree Protocol (RSTP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IEEE 802.3ad LACP/static trunk Supports 6 trunk groups with 4 ports per trunk group 	
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Spanning Tree Protocol Link Aggregation	 Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) GVRP (GARP VLAN Registration Protocol) Up to 4K VLAN groups, out of 4094 VLAN IDs IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IEEE 802.3ad LACP/static trunk Supports 6 trunk groups with 4 ports per trunk group IPv4 IGMP (v1/v2/v3) snooping IPv4 IGMP querier mode support 	
Spanning Tree Protocol Link Aggregation	 Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) GVRP (GARP VLAN Registration Protocol) Up to 4K VLAN groups, out of 4094 VLAN IDs IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IEEE 802.3ad LACP/static trunk Supports 6 trunk groups with 4 ports per trunk group IPv4 IGMP (v1/v2/v3) snooping IPv4 IGMP Querier mode support IPv4 IGMP Snooping port filtering 	
Spanning Tree Protocol Link Aggregation	 Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) GVRP (GARP VLAN Registration Protocol) Up to 4K VLAN groups, out of 4094 VLAN IDs IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IEEE 802.3ad LACP/static trunk Supports 6 trunk groups with 4 ports per trunk group IPv4 IGMP (v1/v2/v3) snooping IPv4 IGMP querier mode support IPv4 IGMP Snooping port filtering Up to 255 multicast groups 	
Spanning Tree Protocol Link Aggregation IGMP Snooping	 Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) GVRP (GARP VLAN Registration Protocol) Up to 4K VLAN groups, out of 4094 VLAN IDS IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1D Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IEEE 802.3ad LACP/static trunk Supports 6 trunk groups with 4 ports per trunk group IPv4 IGMP (v1/v2/v3) snooping IPv4 IGMP querier mode support IPv4 IGMP Snooping port filtering Up to 255 multicast groups IPv6 MLD (v1/v2) snooping 	
Spanning Tree Protocol Link Aggregation IGMP Snooping	 Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) GVRP (GARP VLAN Registration Protocol) Up to 4K VLAN groups, out of 4094 VLAN IDS IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1D Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IEEE 802.3ad LACP/static trunk Supports 6 trunk groups with 4 ports per trunk group IPv4 IGMP (v1/v2/v3) snooping IPv4 IGMP snooping port filtering Up to 255 multicast groups 	
Spanning Tree Protocol Link Aggregation IGMP Snooping MLD Snooping	 Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) GVRP (GARP VLAN Registration Protocol) Up to 4K VLAN groups, out of 4094 VLAN IDs IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1b Spanning Tree Protocol (MSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IEEE 802.3ad LACP/static trunk Supports 6 trunk groups with 4 ports per trunk group IPv4 IGMP (v1/v2/v3) snooping IPv4 IGMP querier mode support IPv4 IGMP Snooping port filtering Up to 255 multicast groups IPv6 MLD querier mode support Up to 255 multicast groups Supports ERPS, and complies with ITU-T G.8032 	
Spanning Tree Protocol Link Aggregation IGMP Snooping	 Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) GVRP (GARP VLAN Registration Protocol) Up to 4K VLAN groups, out of 4094 VLAN IDS IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1D Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IEEE 802.3ad LACP/static trunk Supports 6 trunk groups with 4 ports per trunk group IPv4 IGMP (v1/v2/v3) snooping IPv4 IGMP snooping port filtering Up to 255 multicast groups 	

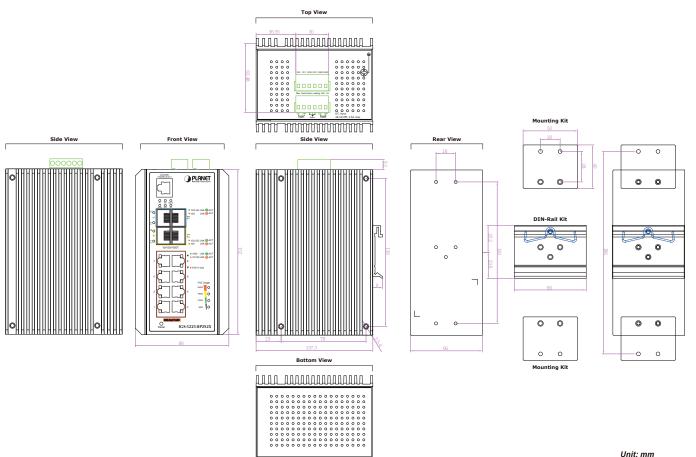


	IEEE 1588v2 PTP (Precision Time Protocol)		
Synchronization	Peer-to-peer transparent clock		
	End-to-end transparent clock		
	Traffic classification based, strict priority and WRR		
	8-level priority for switching		
QoS	- Port number		
	- 802.1p priority		
	- 802.1Q VLAN tag		
	- DSCP/TOS field in IP packet		
	Per port bandwidth control		
Bandwidth Control	Ingress: 500Kb~1000Mbps		
	Egress: 500Kb~1000Mbps		
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 512 entries		
	Port security		
	IP source guard, up to 512 entries		
Security	Dynamic ARP inspection, up to 1K entries		
	Command line authority control based on user level		
	Static MAC address, up to 64 entries		
AAA	RADIUS client		
	TACACS+ client		
	IEEE 802.1x port-based network access control		
Network Access Control	MAC-based authentication		
	Local/RADIUS authentication		
Management			
Basic Management Interfaces	Console; Telnet; Web browser; SNMP v1, v2c		
Secure Management Interfaces	SSHv1/SSHv2, TLSv1.2, SNMP v3		
	Firmware upgrade by HTTP protocol through Ethernet network		
	Configuration upload/download through HTTP		
	Remote syslog		
	System log		
System Management			
System Management	LLDP protocol		
System Management	LLDP protocol NTP		
System Management	LLDP protocol NTP PLANET Smart Discovery Utility		
System Management	LLDP protocol NTP		
System Management	LLDP protocol NTP PLANET Smart Discovery Utility		
System Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app		
	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog		
	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log		
	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP		
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery		
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device monitoring	RFC 2933 IGMP-STD-MIB	
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device monitoring Floor map	RFC 2933 IGMP-STD-MIB RFC 3411 SNMP-Frameworks-MIB	
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II		
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 1493 Bridge MIB	RFC 3411 SNMP-Frameworks-MIB	
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB	RFC 3411 SNMP-Frameworks-MIB RFC 4292 IP Forward MIB	
Event Management ONVIF	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB	RFC 3411 SNMP-Frameworks-MIB RFC 4292 IP Forward MIB RFC 4293 IP MIB	
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2665 Ether-Like MIB	RFC 3411 SNMP-Frameworks-MIB RFC 4292 IP Forward MIB RFC 4293 IP MIB RFC 4836 MAU-MIB	
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 1493 Bridge 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 3411 SNMP-Frameworks-MIB RFC 4292 IP Forward MIB RFC 4293 IP MIB RFC 4836 MAU-MIB IEEE 802.1X PAE	
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2863 Interface MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB	RFC 3411 SNMP-Frameworks-MIB RFC 4292 IP Forward MIB RFC 4293 IP MIB RFC 4836 MAU-MIB IEEE 802.1X PAE LLDP	
Event Management	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 1493 Bridge 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 3411 SNMP-Frameworks-MIB RFC 4292 IP Forward MIB RFC 4293 IP MIB RFC 4836 MAU-MIB IEEE 802.1X PAE LLDP	
Event Management ONVIF SNMP MIBs	LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudViewer app Remote syslog System log SMTP ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 1493 Bridge 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 3411 SNMP-Frameworks-MIB RFC 4292 IP Forward MIB RFC 4293 IP MIB RFC 4836 MAU-MIB IEEE 802.1X PAE LLDP	



	IEC60068-2-32 (free fall)		
Stability Testing	IEC60068-2-27 (shock)		
	IEC60068-2-6 (vibration)		
	IEEE 802.3 10BASE-T	IEEE 1588 PTPv2	
	IEEE 802.3u 100BASE-TX/100BASE-FX	RFC 768 UDP	
	IEEE 802.3z Gigabit SX/LX	RFC 783 TFTP	
	IEEE 802.3ab Gigabit 1000T	RFC 791 IP	
	IEEE 802.3x flow control and back pressure	RFC 792 ICMP	
	IEEE 802.3ad port trunk with LACP	RFC 2068 HTTP	
	IEEE 802.1D Spanning Tree Protocol	RFC 1058 RIP v1	
	IEEE 802.1w Rapid Spanning Tree Protocol	RFC 2453 RIP v2	
	IEEE 802.1s Multiple Spanning Tree Protocol	RFC 1112 IGMP v1	
Standards Compliance	IEEE 802.1p Class of Service	RFC 2236 IGMP v2	
	IEEE 802.1Q VLAN tagging	RFC 3376 IGMP version 3	
	IEEE 802.1ad Q-in-Q VLAN stacking	RFC 2710 MLD version 1	
	IEEE 802.1X Port Authentication Network Control	RFC 3810 MLD version 2	
	IEEE 802.1ab LLDP	RFC 2328 OSPF v2	
	IEEE 802.3af Power over Ethernet	RFC 2740 OSPF v3	
	IEEE 802.3at Power over Ethernet Plus	ITU G.8032 ERPS Ring	
	IEEE 802.3ah OAM	ITU-T G.8032 ERPS Ring	
	IEEE 802.1ag Connectivity Fault Management(CFM)	ITU-T Y.1731 Performance Monitoring	
	IEEE 802.3az Energy Efficient Ethernet(EEE)		
Environment			
	Temperature: -40 ~ 75 degrees C		
Operating	Relative Humidity: 5 ~ 95% (non-condensing)		
Storogo	Temperature: -40 ~ 85 degrees C		
Storage	Relative Humidity: 5 ~ 95% (non-condensing)		

Dimensions





Ordering Information

IGS-5225-8P2S2X

Industrial L3 8-Port 10/100/1000T 802.3at PoE + 2-Port 1G/2.5G SFP + 2-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C)

Related Products

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 100/1G/2.5G SFP Managed Ethernet Switch
IGS-5225-8P2T2S	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 100/1G/2.5G SFP Managed Ethernet Switch
IGS-5225-8P4S	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1GSFP + 2-Port 100/1G/2.5G 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 10Gbps Modules

MTB-LB40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1330nm RX:1270nm)
MTB-LA40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1270nm RX:1330nm)
MTB-LB20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1330nm RX:1270nm)
MTB-LA20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1270nm RX:1330nm)
MTB-SR	1-Port 10GBASE-SR SFP+ Fiber Optic Module - 300m
MTB-LR	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 10km
MTB-LA60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1270nm RX:1330nm)
MTB-LB60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1330nm RX:1270nm)
MTB-RJ	1-Port 10GBASE-T SFP+ Copper Fiber Optic Module - 30m
MTB-LR40	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 40km
MTB-SR2	1-Port 10GBASE-SR SFP+ Fiber Optic Module – 2km
MTB-LR20	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 20km
MTB-LR60	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 60km
MTB-LR80	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 80km
MTB-LA10	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 10km (TX:1270nm RX:1330nm)
MTB-LB10	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 10km (TX:1330nm RX:1270nm)

Available 2500Mbps Modules

MGB-2GSR	2.5G SFP Transceiver (Multi-mode, 850nm, DDM, 0~70 degrees C) - 300m
MGB-2GLA20	2.5G SFP Transceiver (Single mode WDM, TX:1310nm RX:1550nm, DDM, 0~70 degrees C) - 20km
MGB-2GLB20	2.5G SFP Transceiver (Single mode WDM, TX:1550nm RX:1310nm, DDM, 0~70 degrees C) - 20km
MGB-2GLR20	2.5G SFP Transceiver (Single mode, 1310nm, DDM) - 20km
MGB-2GLR2	2.5G SFP Transceiver (Single mode, 1310nm, DDM) - 2km



Available 1000Mbps Modules

MGB-GT	SFP-Port 1000BASE-T Module
MGB-LX	SFP-Port 1000BASE-LX Mini-GBIC Module - 20km
MGB-SX	SFP-Port 1000BASE-SX Mini-GBIC Module - 550m
MGB-SX2	SFP-Port 1000BASE-SX Mini-GBIC Module - 2km
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-BX (WDM, TX:1310nm) Mini-GBIC Module - 10km
MGB-LB10	SFP-Port 1000BASE-BX (WDM, TX:1550nm) Mini-GBIC Module - 10km
MGB-LA20	SFP-Port 1000BASE-BX (WDM, TX:1310nm) Mini-GBIC Module - 20km
MGB-LB20	SFP-Port 1000BASE-BX (WDM, TX:1550nm) Mini-GBIC Module - 20km
MGB-LA40	SFP-Port 1000BASE-BX (WDM, TX:1310nm) Mini-GBIC Module - 40km
MGB-LB40	SFP-Port 1000BASE-BX (WDM, TX:1550nm) Mini-GBIC Module - 40km
MGB-LA80	SFP-Port 1000BASE-BX (WDM, TX:1490nm) Mini-GBIC Module - 80km
MGB-LB80	SFP-Port 1000BASE-BX (WDM, TX:1550nm) Mini-GBIC Module - 80km

Available Modules

MTB Series	10GBASE-LR/SR/BX/T 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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