

IGS-6325-20S4C4X

Industrial L3 14-Port 100/1G SFP with 4 Shared TP + 10-Port 1G/2.5G SFP + 4-Port 10G SFP+ Managed Ethernet Switch



10Gbps Fiber Ports and Multiple Dual Speed Fiber Ports Deliver Highspeed Networking

PLANET IGS-6325-20S4C4X Industrial Layer 3 Managed Switch features 14 100/1000Mbps SFP ports, 4 shared TP ports, 10 100/1000/2500Mbps SFP ports, 4 10G SFP+ ports and **Layer 3 IP routing** in a 1U case. With **10Gbps uplink**, the IGS-6325-20S4C4X can handle extremely large amounts of data in a secure topology linking to an industrial backbone or high capacity servers. The IGS-6325-20S4C4X is capable of providing non-blocking switch fabric and wire-speed throughput as high as **158Gbps** in the temperature range from **-40** to **75** degrees C. It greatly simplifies the tasks of upgrading the industrial LAN for catering to increasing bandwidth demands. Furthermore, it adopts user-friendly **"Front Access"** design for easy wiring and maintenance of the IGS-6325-20S4C4X when placed in the cabinet.



Layer 3 Routing Support

The IGS-6325-20S4C4X enables the administrator to conveniently boost network efficiency by configuring Layer 3 IPv4/IPv6 VLAN static routing manually, and the IPv4 **OSPFv2** (Open Shortest Path First) settings automatically. The OSPF is an interior dynamic routing protocol for autonomous system based on link state. The protocol creates a database for link state 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.

Physical Port

- 14 100/1000BASE-X SFP slots
- 10 100/1000/2500BASE-X SFP slots
- 4 10/100/1000BASE-T RJ45 ports, shared with Port-1 to Port-4
- 4 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX and 2500BASE-X SFP
- RJ45 to RS232 console interface for basic management and setup

Hardware Conformance

- One 100 to 240V AC or dual 24 to 60V DC power input, redundant power with reverse polarity protection
 - Active-active redundant power failure protection
 - Backup of catastrophic power failure on one supply
- Fault tolerance and resilience
- 19-inch rack-mountable design
- IP30 metal case
- Supports EFT 6000V DC protection and 6000V DC
 Ethernet ESD protection
- -40 to 75 degrees C operating temperature for DC power input
- -10 to 60 degrees C operating temperature for AC power input

Digital Input & Digital Output

- 2 Digital Input (DI)
- 2 Digital Output (DO)
- · Integrates sensors into auto alarm system
- · Transfers alarm to IP network via email and SNMP trap

Layer 3 IP Routing Features

- Supports maximum 128 static routes and route summarization
- IP dynamic routing protocol supports OSPFv2
- · Routing interface provides per VLAN routing mode

Layer 2 Features

- High performance of Store-and-Forward architecture, and runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- · Storm control support



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. For efficient management, the IGS-6325-20S4C4X is equipped with console, web and SNMP management interfaces. With the built-in web-based management interface, the IGS-6325-20S4C4X offers an easy-to-use, platform independent management and configuration facility. The IGS-6325-20S4C4X supports SNMP and it can be managed via any management software based on the standard SNMP protocol. For reducing product learning time, the IGS-6325-20S4C4X offers Cisco-like command via Telnet or console port and customer doesn't need to learn new command from these switches. Moreover, the IGS-6325-20S4C4X offers remote secure management by supporting SSH, SSL and SNMP v3 connection which can encrypt the packet content at each session.



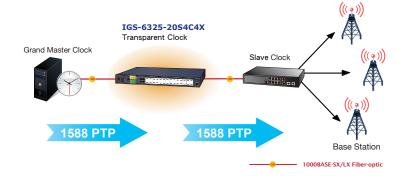
Modbus TCP Provides Flexible Network Connectivity for Factory Automation

With the supported Modbus TCP/IP protocol, the IGS-6325-20S4C4X 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-6325-20S4C4X 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



- Broadcast/Multicast/Unknown unicast

- Supports VLAN
 - IEEE 802.1Q tagged VLAN
 - Up to 4K VLANs groups, out of 4096 VLAN IDs
 - Provides Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)
 - Private VLAN Edge (PVE)
 - Protocol-based VLAN
 - MAC-based VLAN
 - IP subnet-based 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 Guard
- Supports Link Aggregation
 - 802.3ad Link Aggregation Control Protocol (LACP)
 - Cisco ether-channel (static trunk)
 - Maximum 14 trunk groups, with 16 ports for each trunk
 - Up to 80Gbps bandwidth (full duplex mode)
- Provides port mirror (many-to-1)
- Port mirroring monitors 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
- · IEEE 1588 and Synchronous Ethernet network timing

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
- · Traffic policing on the switch port
- DSCP remarking
- Voice VLAN



AC and DC Redundant Power to Ensure Continuous Operation

The IGS-6325-20S4C4X possesses a **100~240V AC** power supply and dual **24~60V DC** power supply utilized as redundant power supply to ensure its continuous operation. Its redundant power system is specifically designed to handle the demands of high-tech facilities requiring the highest power integrity. Furthermore, with the 24~60V DC power supply implemented, the IGS-6325-20S4C4X can be applied as the **telecom level** device and placed in almost any difficult environment.

Digital Input and Digital Output for External Alarm

The IGS-6325-20S4C4X helps the network administrators efficiently manage the unexpected network situations by providing Digital Input and Digital Output for external alarm device on the front panel. The Digital Input can be used to detect and log the status of the external devices such as door intrusion detector. The Digital Output could be used to send alarm whenever the IGS-6325-20S4C4X has port link-down or power failure.

Digital Input



Digital Output



Effective Alarm Alert for Better Protection

The IGS-6325-20S4C4X 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 to find where the problem is. It will help to save time and human resource.

Fault Alarm Alert



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
 - IEEE 802.1x authentication with guest VLAN
 - Built-in RADIUS client to cooperate with the RADIUS servers
 - RADIUS/TACACS+ users access authentication
- Access Control List
 - IP-based Access Control List (ACL)
 - MAC-based Access Control List (ACL)
- · 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

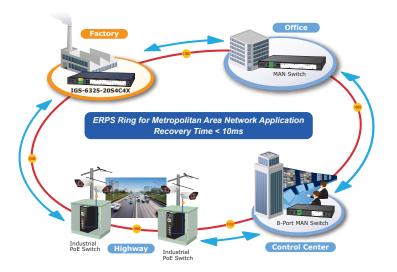
Management

- · IPv4 and IPv6 dual stack management
- Switch Management Interfaces
 - Console/Telnet command line interface
 - Web switch management
 - SNMP v1, v2c, and v3 switch management
 - SSH, TLS, SSL secure access
- SNMP Management
 - Four RMON groups (history, statistics, alarms, and events)
 - SNMP trap for interface Link Up and Link Down notification
- IPv6 address/NTP 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



Redundant Ring, Fast Recovery for Critical Network Applications

The IGS-6325-20S4C4X 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.



- DHCP relay and option 82
- DHCP Server
- User privilege levels control
- NTP (Network Time Protocol)
- Link Layer Discovery Protocol (LLDP) and LLDP-MED
- Network diagnostic
 - SFP-DDM (Digital Diagnostic Monitor)
 - Cable diagnostic technology provides the mechanism to detect and report potential cabling issues
 - ICMPv6/ICMPv4 remote ping
 - · SMTP/Syslog remote alarm
 - System Log
 - PLANET NMS System and Smart Discovery Utility for deployment management

IPv6/IPv4 Dual Stack

Supporting both IPv6 and IPv4 protocols, the IGS-6325-20S4C4X helps data centers, campuses, telecoms, and more to experience the IPv6 era with the lowest investment as its network facilities need not be replaced or overhauled if the IPv6 FTTx edge network is set up.

Robust Layer 2 Features

The IGS-6325-20S4C4X can be programmed for advanced switch management functions such as dynamic port link aggregation, **Q-in-Q VLAN**, private VLAN, **Multiple Spanning Tree Protocol (MSTP)**, Layer 2 to Layer 4 QoS, bandwidth control and **IGMP/MLD Snooping**. Via the link aggregation of supporting ports, the IGS-6325-20S4C4X allows the operation of a high-speed trunk to combine with multiple fiber ports and supports fail-over as well.



Powerful Security

The IGS-6325-20S4C4X offers a 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 IGS-6325-20S4C4X 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.



Excellent Traffic Control

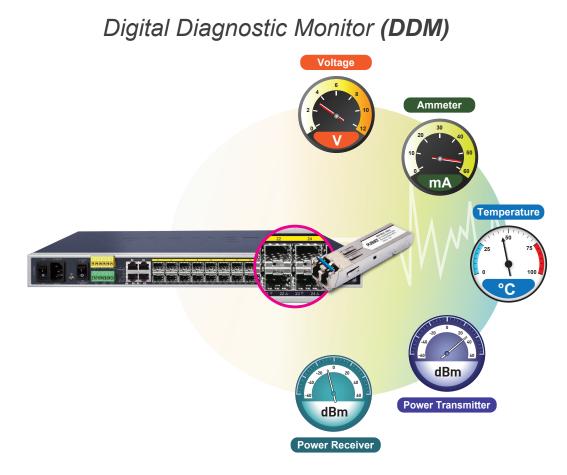
The IGS-6325-20S4C4X is loaded with powerful traffic management and QoS features to enhance connection services by telecoms and ISPs. The QoS features include wire-speed Layer 4 traffic classifiers and bandwidth limit that are particularly useful for multi-tenant units, multi-business units, Telco and network service providers' applications. It also empowers the industrial environment to take full advantage of the limited network resources and guarantees the best performance in VoIP and video conferencing transmission.

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-6325-20S4C4X supports **triple speed** and **10GBASE-SR/LR**, **2500BASE-X** or **1000BASE-SX/LX**. With its 4-port, 10G Ethernet link capability and additional 4-port 1G 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. The IGS-6325-20S4C4X provides broad bandwidth and powerful processing capacity.

Intelligent SFP Diagnosis Mechanism

The IGS-6325-20S4C4X 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.

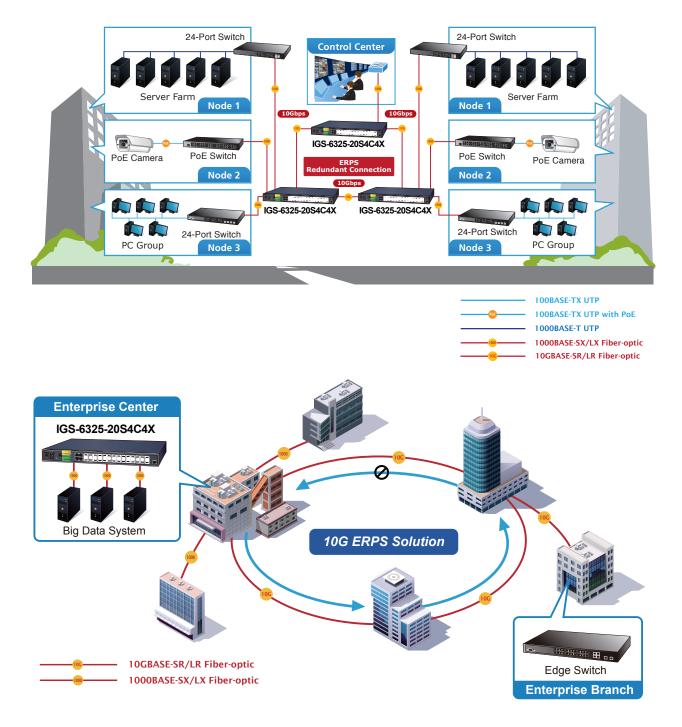




Applications

High Availability Mesh Networking Solution for Big Data System

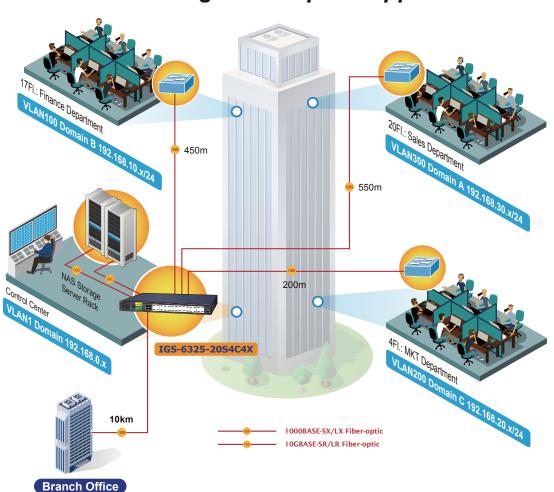
To improve the technology of Optical Fiber Ethernet with highly-flexible, highly-extendable and easy-to-install features, the IGS-6325-20S4C4X offers up to **158Gbps** data exchange speed via Optical Fiber interface and the transmission distance can be extended to 10km. The IGS-6325-20S4C4X features strong, rapid, self-recovery capability to prevent interruptions and external intrusions. It incorporates **ITU-T G.8032 ERPS (Ethernet Ring Protection Switching)** into customer's automation network to enhance system reliability and uptime. The IGS-6325-20S4C4X is the ideal solution for data centers, service providers and telecoms to build redundant connection and establish high bandwidth for **Big Data** server farm.





Layer 3 VLAN Routing

With the built-in, robust Layer 3 routing protocols, the IGS-6325-20S4C4X ensures reliable routing between VLANs and network segments. The routing protocols can be applied by VLAN interface with up to 128 routing entries. The IGS-6325-20S4C4X, certainly an ideal solution for industries, offers greater security, control and bandwidth conservation, and high-speed uplink.



VLAN Routing + 10G Uplink Applications



Specifications

Product	IGS-6325-20S4C4X				
Hardware Specifications					
Copper Ports	4 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports, shared with Port-1 to Port-4				
	14 100/1000BASE-X SFP interfaces (Port-1 to Port-14)				
	Compatible with 100BASE-FX SFP transceiver				
SFP/mini-GBIC Slots	10 100/1000/2500BASE-X SFP interfaces (Port-15 to Port-24)				
	Compatible with 100BASE-FX and 2500BASE-X SFP transceiver				
	4 10GbBASE-SR/LR SFP+ interfaces (Port-25 to Port-28)				
SFP+ Slots	Compatible with 1000BASE-SX/LX/BX and 2500BASE-X SFP transceiver				
Console	1 x RS232-to-RJ45 serial port (115200, 8, N, 1)				
Switch Architecture	Store-and-Forward				
Switch Fabric	158Gbps/non-blocking				
Throughput	117.5Mpps@64Bytes				
Address Table	32K entries, automatic source address learning and aging				
Shared Data Buffer	32M bits				
	IEEE 802.3x pause frame for full duplex				
Flow Control					
lumbo Fromo	Back pressure for half duplex				
Jumbo Frame	10K bytes				
Reset Button	< 5 sec: System reboot				
-	> 5 sec: Factory default				
Dimensions (W x D x H)	440 x 200 x 44.5 mm, 1U height				
Weight	2.935kg				
	System:				
	AC (Green), DC1 (Green), DC2 (Green), Fault (Red)				
	Ring (Green), DI/DO. (Green)				
	10/100/1000T RJ45 Interfaces (Port 1 to Port 4):				
	1000Mbps LNK/ACT (Green)				
	10/100Mbps LNK/ACT (Amber)				
	100/1000Mbps SFP Combo Interfaces (Port 1 to Port 4):				
	1000Mbps LNK/ACT (Green)				
	100Mbps LNK/ACT (Amber)				
LED Indicators	100/1000Mbps SFP Interfaces (Port 5 to Port 14):				
	1000Mbps LNK/ACT (Green)				
	100Mbps LNK/ACT (Amber)				
	100/1G/2.5Gbps SFP Interfaces (Port 15 to Port 24):				
	1G/2.5G LNK/ACT(Green)				
	100 LNK/ACT (Amber				
	1/2.5/10Gbps SFP+ Interfaces (Port 25 to Port 28):				
	1G/2.5G LNK/ACT (Green)				
	10Gbps LNK/ACT (Amber)				
	AC input:				
Power Consumption	Max. 38.3 watts/131.4 BTU				
	DC input:				
	Max. 41.4 watts/142 BTU				
Power Requirements – AC	AC 100~240V, 50/60Hz 1A				
Power Requirements – DC	DC 24~60V, 2.25A				
	2 digital input (DI):				
	Level 0: -24~2.1V				
DI and DO	Level 1: 2.1~24V				
	Max. input current: 10mA				
	2 digital output (DO): Open collector to 24VDC, 100mA				
EFT Protection	6KV DC				
ESD Protection	6KV DC				
Layer 2 Management Functions					
	Port disable/enable				
Port Configuration	Auto-negotiation 10/100/1000Mbps full and half duplex mode selection				
	Flow control disable/enable				
	Display each part's append duplay mode, link status, flow control status, oute pagetistics status, trunk status				
Port Status	Display each port's speed duplex mode, link status, flow control status, auto-negotiation status, trunk status				
Port Status Port Mirroring	TX/RX/Both				



	802.1Q tagged VLAN Q-in-Q tunneling Private VLAN Edge (PVE)
	MAC-based VLAN
VLAN	Protocol-based VLAN
	Voice VLAN
	IP Subnet-based VLAN
	MVR (Multicast VLAN registration)
	Up to 4K VLAN groups, out of 4096 VLAN IDs GVRP
Link Aggregation	IEEE 802.3ad LACP/static trunk
	14 trunk groups with 16 port per trunk group
	IEEE 802.1D Spanning Tree Protocol
Spanning Tree Protocol	IEEE 802.1w Rapid Spanning Tree Protocol
	IEEE 802.1s Multiple Spanning Tree Protocol
	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
IGMP Snooping	IGMP (v1/v2/v3) snooping IGMP querier mode support
IGMF Shooping	Supports 255 IGMP groups
	MLD (v1/v2) snooping
MLD Snooping	MLD querier mode support
	Supports 255 MLD groups
	IP-based ACL/MAC-based ACL
	ACL based on:
	- MAC Address
	- IP Address
Access Control List	- Ethertype
Access Control List	- Protocol Type
	- VLAN ID
	- DSCP
	- 802.1p Priority
	Up to 256 entries
	Per port bandwidth control
Bandwidth Control	Ingress: 100Kbps~1000Mbps
	Egress: 100Kbps~1000Mbps
Synchronization	IEEE 1588v2 PTP (Precision Time Protocol)
Synchronization	- Peer-to-peer transparent clock - End-to-end transparent clock
Layer 3 Functions	
IP Interfaces	Max. 128 VLAN interfaces
Routing Table	Max. 128 vLAN interfaces
	IPv4 hardware static routing
Routing Protocols	IPv6 hardware static routing
ů.	OSPFv2 dynamic routing
Management	· •
Basic Management Interfaces	Console; Telnet; Web browser; SNMP v1, v2c
Secure Management Interfaces	SSHv2, TLSv1.2, SNMPv3



SNMP MIBs	RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2665 Ether-Like MIB RFC 2665 Ether-Like MIB RFC 2819 RMON MIB (Group 1, 2, 3 and 9) RFC 2737 Entity MIB RFC 2618 RADIUS Client MIB RFC 2618 RADIUS Client MIB RFC 2863 IF-MIB RFC 2933 IGMP-STD-MIB RFC 2933 IGMP-STD-MIB RFC 4292 IP Forward MIB RFC 4293 IP MIB RFC 4293 IP MIB RFC 4386 MAU-MIB IEEE 802.1X PAE LLDP
Standards Conformance	
	FCC Part 15 Class A
Regulatory Compliance	CE : EN 61000-6-2 EN 61000-6-4
Standards Compliance	IEEE 802.3 u100BASE-TIEEE 802.3u 100BASE-TX/100BASE-FXIEEE 802.3z Gigabit SX/LXIEEE 802.3ab Gigabit 1000TIEEE 802.3x flow control and back pressureIEEE 802.3x flow control and back pressureIEEE 802.10 Spanning Tree ProtocolIEEE 802.10 Spanning Tree ProtocolIEEE 802.19 Class of ServiceIEEE 802.19 Class of ServiceIEEE 802.10 VLAN taggingIEEE 802.10 VLAN taggingIEEE 802.12 VLAN taggingIEEE 802.13a Connectivity Fault Management (CFM)RFC 783 LDPIEEE 802.3ah OAMIEEE 802.1ab LLDPIEEE 802.1ab LLDPIEEE 802.1ab LLPRFC 793 TFTPRFC 791 IPRFC 791 IPRFC 792 ICMPRFC 792 ICMPRFC 1112 IGMP v1RFC 2328 OSPF v2RFC 3376 IGMP v3RFC 2328 OSPF v2RFC 33810 MLD v2ITU G.8032 Ethernet Ring Protection SwitchingITU-T G.8032 Expres RingITU-T Y.1731 Performance Monitoring
Environment	
	Temperature: -10 ~ 60 degrees C for AC power input
Operating	-40 ~ 75 degrees C for DC power input Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -40 ~ 80 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

Ordering Information

	Industrial L3 14-Port 100/1G SFP with 4 Shared TP + 10-Port 1G/2.5G SFP + 4-Port 10G SFP+ Managed
IGS-6325-20S4C4X	Ethernet Switch



Available Modules for IGS-6325-20S4C4X

10Gigabit Ethernet Transceiver (10GBASE-X SFP+)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MTB-SR	10G	LC	Multi Mode	300m	850nm	0 ~ 60 degrees C
MTB-LR	10G	LC	Single Mode	10km	1310nm	0 ~ 60 degrees C
MTB-TSR	10G	LC	Multi Mode	300m	850nm	-40 ~ 75 degrees C
MTB-TLR	10G	LC	Single Mode	10km	1310nm	-40 ~ 75 degrees C
MTB-RJ	10G	RJ45		30m		0 ~ 60 degrees C

10Gigabit Ethernet Transceiver (10GBASE-BX, Single Fiber Bi-directional SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MTB-LA20	10G	WDM(LC)	Single Mode	20km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB20	10G	WDM(LC)	Single Mode	20km	1330nm	1270nm	0 ~ 60 degrees C
MTB-LA40	10G	WDM(LC)	Single Mode	40km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB40	10G	WDM(LC)	Single Mode	40km	1330nm	1270nm	0 ~ 60 degrees C
MTB-LA60	10G	WDM(LC)	Single Mode	60km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB60	10G	WDM(LC)	Single Mode	60km	1330nm	1270nm	0 ~ 60 degrees C

2.5 Gigabit Ethernet Transceiver (2.5GBASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-2GTSR	2.5G	LC	Multi Mode	300m	850nm	-40 ~ 75 degrees C
MGB-2GTLR2	2.5G	LC	Multi Mode	2km	1310nm	-40 ~ 75 degrees C
MGB-2GTLR20	2.5G	LC	Multi Mode	20km	1310nm	-40 ~ 75 degrees C

2.5G Gigabit Ethernet Transceiver (2.5GBASE-BX, Single Fiber Bi-directional SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MGB-2GTLA20	2.5G	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-2GTLB20	2.5G	WDM(LC)	Single Mode	20km	1550nm	1310nm	-40 ~ 75 degrees C

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-GT	1000	Copper		100m		0 ~ 60 degrees C
MGB-SX	1000	LC	Multi Mode	550m	850nm	0 ~ 60 degrees C
MGB-SX2	1000	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MGB-LX	1000	LC	Single Mode	10km	1310nm	0 ~ 60 degrees C
MGB-L30	1000	LC	Single Mode	30km	1310nm	0 ~ 60 degrees C
MGB-L50	1000	LC	Single Mode	50km	1550nm	0 ~ 60 degrees C
MGB-L70	1000	LC	Single Mode	70km	1550nm	0 ~ 60 degrees C
MGB-L120	1000	LC	Single Mode	120km	1550nm	0 ~ 60 degrees C
MGB-TSX	1000	LC	Multi Mode	550m	850nm	-40 ~ 75 degrees C
MGB-TLX	1000	LC	Single Mode	10km	1310nm	-40 ~ 75 degrees C
MGB-TL30	1000	LC	Single Mode	30km	1310nm	-40 ~ 75 degrees C
MGB-TL70	1000	LC	Single Mode	70km	1550nm	-40 ~ 75 degrees C

Gigabit Ethernet Transceiver (1000BASE-BX, Single Fiber Bi-directional SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MGB-LA10	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB10	1000	VVDIVI(LC)	Silligle Mode	TOKIT	1550nm	1310nm	0 ° 00 degrees C
MGB-LA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB20	1000	VVDIVI(LC)	Silligle Mode	20KIII	1550nm	1310nm	0 ~ 00 degrees C
MGB-LA40	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB40	1000	VVDIVI(LC)	Silligie Mode	40km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA60	1000	WDM(LC)	Single Mode	60km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB60	1000	VVDIVI(LC)	Silligle Mode	OUKIII	1550nm	1310nm	0 ~ 60 degrees C
MGB-TLA10	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB10	1000	VVDIVI(LC)	Silligle Mode	IUKIII	1550nm	1310nm	-40 - 75 degrees C
MGB-TLA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB20	1000	VVDIVI(LC)	Silligie Mode	2011	1550nm	1310nm	-40 - 75 degrees C
MGB-TLA40	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB40	1000	VVDIVI(LC)	Single Mode 40km	1550nm	1310nm	-40 - 75 degrees C	
MGB-TLA60	1000	A60 1000 WDM(LC) Single Mode	60km	1310nm	1550nm	-40 ~ 75 degrees C	
MGB-TLB60	1000	VVDIVI(LC)	Siligle Mode	UUKIII	1550nm	1310nm	-40 - 75 degrees C



Fast Ethernet Transceiver (100BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MFB-FX	100	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MFB-F20	100	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MFB-F40	100	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MFB-F60	100	LC	Single Mode	60km	1310nm	0 ~ 60 degrees C
MFB-F120	100	LC	Single Mode	120km	1310nm	0 ~ 60 degrees C
MFB-TFX	100	LC	Multi Mode	2km	1310nm	-40 ~ 75 degrees C
MFB-TF20	100	LC	Single Mode	20km	1310nm	-40 ~ 75 degrees C

Fast Ethernet Transceiver (100BASE-BX, Single Fiber Bi-directional SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MFB-FA20	100	WDM (LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MFB-FB20	100	WDM (LC)	Single Mode	20km	1550nm	1310nm	0 ~ 60 degrees C
MFB-TFA20	100	WDM (LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 75 degrees C
MFB-TFB20	100	WDM (LC)	Single Mode	20km	1550nm	1310nm	-40 ~ 75 degrees C
MFB-TFA40	100	WDM (LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 75 degrees C
MFB-TFB40	100	WDM (LC)	Single Mode	40km	1550nm	1310nm	-40 ~ 75 degrees C

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