

Product Specifications

Industrial DIN-rail L3 Multi-port Ring Managed Switch Series

IGS-6325-8T8S4X

IGS-6325-8T8S

IGS-6325-8T4X

Version 1.0

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Change History:

Revision	Date	Author	Change List
1.0	2019/12/05	Calvin Chao	Initial release

Author	Calvin Chao	Editor:	
Reviewed by:	Mark Kao	Approved by:	Kent Kang

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1. PRODUCT DESCRIPTION

Multi 1/10G for Factory and Metropolitan Long-reach Networking

PLANET IGS-6325-8T8S and IGS-6325-8T8S4X are the smallest yet high-capacity, industrial-grade Layer 3 managed switches with high-density hybrid copper and fiber optic interfaces. Each of them features **eight 10/100/1000BASE-T RJ45 ports**, **eight 100/1000BASE-X SFP slots** and up to **four 10G SFP+ slots** in a DIN-rail type rugged case and can operate stably under the temperature range from **-40** to **75 degrees C**.

Models	10/100/1000T Copper	100/1000X SFP	1G/10G SFP+	Switch Capacity	Power Input
IGS-6325-8T8S4X		o	4	112Gbps	DC 40, 40V
IGS-6325-8T8S	8	8		32Gbps	DC 12~48V AC 24V
IGS-6325-8T4X			4	96Gbps	AO 24 V

They're designed to be installed in any space-limited cabinets and can be flexibly applied to extend the connection distance with multiple interfaces, thus increasing flexible network deployments and networking performance.



High-density Core/Metro Ethernet Switches for Hardened Environments

Layer 3 Routing Support

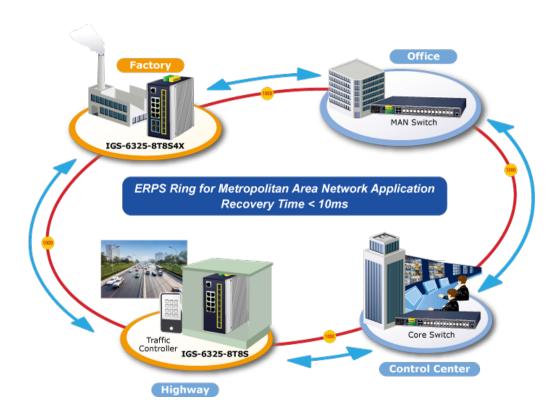
The IGS-6325 Series enables the administrator to conveniently boost network efficiency by configuring Layer 3 IPv4/IPv6 VLAN static routing manually, and the IPv4 **OSPFv2** (Open Shortest Path First) settings automatically. The OSPF is an interior dynamic routing protocol for autonomous system based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

Redundant Ring, Fast Recovery for Critical Network Applications

The IGS-6325 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.



Network with Cybersecurity Helps Minimize Security Risks

The IGS-6325 Series comes with enhanced cybersecurity to fend off cyberthreats and cyberattacks. It supports SSHv2, TLS v1.2 and SSL protocols to provide strong protection against advanced threats. Served as a key point to transmit data over multiple long distance fiber optical connections to customer's critical equipment in a business network, the cybersecurity feature of the IGS-6325 Series protects the switch management and enhances the security of the mission-critical network without any extra deployment cost and effort.



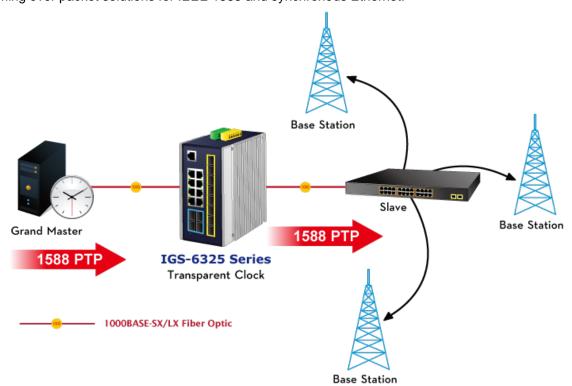


Modbus TCP Provides Flexible Network Connectivity for Factory Automation

With the supported **Modbus TCP/IP** protocol, the IGS-6325 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**, communication status, and DI and DO status, thus easily achieving enhanced monitoring and maintenance of the entire factory.

1588 Time Protocol for Industrial Computing Networks

The IGS-6325 Series is ideal for telecom and carrier Ethernet applications, supporting MEF service delivery and timing over packet solutions for IEEE 1588 and synchronous Ethernet.



Redundant Power to Ensure Continuous Operation

The IGS-6325 DIN-rail series possesses dual **DC 12~48V** and **AC 24V** 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.

SMTP/SNMP Trap Event Alert

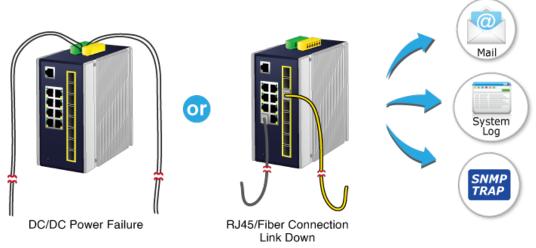
The IGS-6325 Series provides event alert function to help to diagnose the abnormal device owing to whether or not there is a break of the network connection, or the rebooting response.

Effective Alarm Alert for Better Protection

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



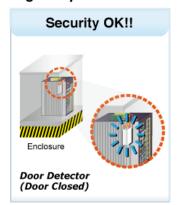
Fault Alarm Feature



Digital Input and Digital Output for External Alarm

The IGS-6325 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 I IGS-6325 Series' port shows link down, link up or power failure.

Digital Input







Digital Output







IPv6/IPv4 Dual Stack

Supporting both IPv6 and IPv4 protocols, the IGS-6325 Series 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 Series can be programmed for advanced Layer 2 switch management functions such as dynamic port link aggregation, 802.1Q tagged VLAN, Q-in-Q VLAN, private VLAN, Multiple Spanning Tree Protocol (MSTP), Layer 2 to Layer 4 QoS, bandwidth control, IGMP snooping and MLD snooping. Via the aggregation of supporting ports, the IGS-6325 Series allows the operation of a high-speed trunk group that comes with multiple ports and supports fail-over as well.

Efficient Management

For efficient management, the IGS-6325 Series is equipped with console, Web and SNMP management interfaces.

- With the built-in **Web-based** management interface, the IGS-6325 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 Network Security

The IGS-6325 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-6325 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.

Excellent Traffic Control

The IGS-6325 Series 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 Series supports **dual speed** and **10GBASE-SR/LR or 1000BASE-SX/LX**. With its 4-port, 10G Ethernet link capability and additional 8-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 Series provides broad bandwidth and powerful processing capacity.

Intelligent SFP Diagnosis Mechanism

The IGS-6325 Series supports SFP-DDM (digital diagnostic monitor) function that greatly helps network administrator to easily monitor real-time parameters of the SFP and SFP+ transceivers, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

Digital Diagnostic Monitor (DDM)





2. PRODUCT FEATURES

Physical Port

- 8 10/100/1000BASE-T RJ45 copper ports
- 8 100/1000BASE-X SFP slots for SFP type auto detection (for IGS-6325-8T8S and IGS-6325-8T8S4X)
- 4 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-X SFP(IGS-6325-8T4X and IGS-6325-8T8S4X)
- One RJ45-to-RS232 console interface for basic management and setup

Industrial Hardened Design

- Dual power input, redundant power with reverse polarity protection
 - DC 12 to 48V input or AC 24V input
 - Active-active redundant power failure protection
 - Backup of catastrophic power failure on one supply
 - Fault tolerance and resilience
- DIN-rail and wall-mountable designs
- IP30 aluminum case
- Supports 6000V DC Ethernet ESD protection
- -40 to 75 degrees C operating temperature

Digital Input and 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

- IP dynamic routing protocol supports OSPFv2
- IPv4/IPv6 hardware static routing
- 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
 - Broadcast/Multicast/Unknown unicast
- Supports VLAN
 - IEEE 802.1Q tagged VLAN



- Up to 255 VLANs groups, out of 4095 VLAN IDs
- Supports provider bridging (VLAN Q-in-Q 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 14 trunk groups, with 16 ports for each trunk
- Up to 80Gbps bandwidth (full 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
- Link Layer Discovery Protocol (LLDP)
- 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
- Supports G.8032 ERPS (Ethernet Ring Protection Switching)
- 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



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
 - 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 (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 and Telnet Command Line Interface
 - HTTP web switch management
 - SNMP v1 and v2c switch management
 - SSH, TLS, SSL 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
 - Reset button for system reboot or reset to factory default



- Dual images
- DHCP Relay
- DHCP Option 82
- DHCP Server
- User Privilege levels control
- Network Time Protocol (NTP)
- 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 Smart Discovery Utility for deployment management



3. PRODUCT SPECIFICATIONS

3.1 MAIN COMPONENTS

Models	IGS-6325-8T8S IGS-6325-8T8S4X IGS-6325-8T4X					
Switch ASIC	Microchip VSC7442	Microch	ip VSC7448			
CPU	500MHz MIPS 24KEc CPU	(integrated with VSC74	42/VSC7448)			
Gigabit PHY	Microchip VSC8514XMK-14 x 2					
Flash Size	64M bytes					
DRAM Size	512Mbytes					

3.2 FUNCTION SPECIFICATIONS

Product	IGS-6325-8T8S			
Hardware Specifications				
Copper Ports	8 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports			
SFP Ports	8 100/1000BASE-X SFP slo	t interfaces (Port-9 to Port-16)		
SEP POILS	Compatible with 100BASE-F	X SFP transceiver		
SFP+ Ports		4 10GbBASE-SR/LR SFP+	slot interfaces	
OTTTTOILS		Compatible with 1000BASE-	SX/LX/BX SFP transceiver	
Console	1 x RJ45-to-RS232 serial port (115200, 8, N, 1)			
Switch Architecture	Store-and-Forward	Store-and-Forward		
Switch Fabric	32Gbps/non-blocking	112Gbps/non-blocking	96Gbps/non-blocking	
Throughput	23.81Mpps@64Bytes	83.33Mpps@64Bytes	71.43Mpps@64Bytes	
Address Table	16K entries, automatic source	e address learning and aging		
Shared Data Buffer	32Mbits			
Jumbo Frame	10K bytes			
SDRAM	512Mbytes			
Flash Memory	64Mbytes			
Flour Control	IEEE 802.3x pause frame for full duplex			
Flow Control	Back pressure for half duplex			
Reset Button	< 5 sec: System reboot			
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 block for DI/DO interface			
		for DO 1 & 2, Pin 5/6 for GND		
Alarm		ailure. Alarm relay current car	ry ability: 1A @ 24V DC	
Digital Input (DI)	2 digital input:			



	Level 0: -24~2.1V (±0.1V)	Level 0: -24~2.1V (±0.1V)			
	Level 1: 2.1~24V (±0.1V)	Level 1: 2.1~24V (±0.1V)			
	Input load to 24V DC, 1	Input load to 24V DC, 10mA max.			
Digital Output (DO)	2 digital output:	2 digital output:			
	Open collector to 24VD	Open collector to 24VDC, 100mA			
Enclosure	IP30 aluminum case				
Installation	DIN-rail or wall mounting				
Dimensions (W x D x H)	76 x 107 x 152 mm				
Weight	1,065g	1,250g	1,020g		
	DC 12~48V, 4A max.				
Power Requirements	AC 24V, 1.5A max.				
	DC input:	DC input:	DC input:		
	Max. 9.12 watts/32BTU	Max. 12 watts/41BTU	Max. 10 watts/35BTU		
	(system on)	(system on)	(system on)		
	Max. 37.68 watts/129 BTU	Max. 43.44 watts/148.2 BTU	Max. 39 watts/133 BTU (Fu		
Decree Organisation	(Full loading)	(Full loading, RJ45-SFP)	loading)		
Power Consumption	AC 24V input:	AC 24V input:	AC 24V input:		
	Max. 12 watts/41BTU	Max. 13 watts/45BTU	Max. 12 watts/41BTU		
	(system on)	(system on)	(system on)		
	Max. 35.24 watts/120BTU	Max. 41 watts/140BTU (Full	Max. 37 watts/126BTU (Ful		
	(Full loading)	loading)	loading)		
ESD Protection	6KV DC				
Surge Protection	4KV DC	4KV DC			
	System:				
	Power 1 (Green), Power 2 (Green)				
	Fault Alarm (Red)				
	Ring (Green), Ring Owner (Green)				
	DIDO (Red)				
	Per 10/100/1000T RJ45 Port:				
LED Indicators	1000Mbps LNK/ACT (Green)				
EED maioatoro	10/100Mbps LNK/ACT (Amber)				
	Per SFP Port:				
	1000Mbps LNK/ACT (Green)				
	100Mbps LNK/ACT (Amber)				
	Per SFP+ Port:				
		10Gbps LNK/ACT (Green)			
	1Gbps LNK/ACT (Amber)				
Layer 2 Management Funct	ions				
Port Configuration	Port disable/enable				
	Auto-negotiation 10/100/100	00Mbps full and half duplex mo	ode selection		



	Flow control disable/enable
	Port link capability control
	Display each port's speed duplex mode, link status, flow control status, auto-negotiation
Port Status	status, trunk status
	TX/RX/Both
Port Mirroring	Many-to-1 monitor
	802.1Q tagged VLAN
	Q-in-Q tunneling
	Private VLAN Edge (PVE)
	MAC-based VLAN
	Protocol-based VLAN
VLAN	Voice VLAN
	IP Subnet-based VLAN
	MVR (Multicast VLAN registration)
	GVRP
	Up to 256 VLAN groups, out of 4095 VLAN IDs
Link Aggregation	IEEE 802.3ad LACP/static trunk
	14 trunk groups with 16 port per trunk group
Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol
	IEEE 802.1w Rapid Spanning Tree Protocol
	IEEE 802.1s Multiple Spanning Tree Protocol
	IPv4 IGMP (v1/v2/v3) snooping
IGMP Snooping	IPv4 IGMP querier mode support
	Supports 255 IGMP groups
	IPv6 MLD (v1/v2) snooping,
MLD Snooping	IPv6 MLD querier mode support
	Supports 255 MLD groups
	IP-based ACL/MAC-based ACL
	ACL based on:
	- MAC Address
	- IP Address
	- 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
QoS	Traffic classification based, strict priority and WRR



- Port number - 802.1p priority 802.1Q VLAN tag - DSCP/ToS field in IP packet EEE 1588v2 PTP(Precision Time Protocol) - Peer-to-peer transparent clock - End-to-end transparent clock - End-to-end transparent clock - Max. 128 VLAN interfaces Max. 128 routing entries Pv4 hardware static routing Pv6 hardware static routing DSPFv2 dynamic routing Console; Telnet; Web browser; SNMP v1, v2c SSHv1/v2, TLS v1.1/v1.2, SSL, SNMPv3 Firmware upgrade by HTTP protocol through Ethernet network Configuration upload/download through HTTP
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Console; Telnet; Web browser; SNMP v1, v2c SSHv1/v2, TLS v1.1/v1.2, SSL, SNMPv3 Firmware upgrade by HTTP protocol through Ethernet network
SSHv1/v2, TLS v1.1/v1.2, SSL, SNMPv3 Firmware upgrade by HTTP protocol through Ethernet network
SSHv1/v2, TLS v1.1/v1.2, SSL, SNMPv3 Firmware upgrade by HTTP protocol through Ethernet network
SSHv1/v2, TLS v1.1/v1.2, SSL, SNMPv3 Firmware upgrade by HTTP protocol through Ethernet network
Firmware upgrade by HTTP protocol through Ethernet network
Firmware upgrade by HTTP protocol through Ethernet network
Configuration upload/download through HTTP
Remote Syslog
System log
LDP protocol
NTP
PLANET Smart Discovery Utility
RFC 1213 MIB-II
RFC 1493 Bridge MIB
RFC 1643 Ethernet MIB
RFC 2863 Interface 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 2863 IF-MIB
RFC 2933 IGMP-STD-MIB RFC 3411 SNMP-Frameworks-MIB
RFC 3411 SNMP-Frameworks-MIB
RFC 4293 IP MIB
RFC 4836 MAU-MIB
EEE 802.1X PAE
LDP



	FCC Part 15 Class A
	CE:
Regulatory Compliance	EN55032
regulatory compliance	
	EN55035
	EN 62368-1/IEC 62368-1: 2014
	IEC60068-2-32 (free fall)
Stability Testing	IEC60068-2-27 (shock)
	IEC60068-2-6 (vibration)
	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX/100BASE-FX
	IEEE 802.3z Gigabit SX/LX
	IEEE 802.3ab Gigabit 1000T
	IEEE 802.3ae 10Gb/s Ethernet
	IEEE 802.3x flow control and back pressure
	IEEE 802.3ad port trunk with LACP
	IEEE 802.1D Spanning Tree Protocol
	IEEE 802.1w Rapid Spanning Tree Protocol
	IEEE 802.1s Multiple Spanning Tree Protocol
	IEEE 802.1p Class of Service
	IEEE 802.1Q VLAN tagging
	IEEE 802.1X Port Authentication Network Control
	IEEE 802.1ab LLDP
Standards Compliance	IEEE 802.3ah OAM
	IEEE 802.1ag Connectivity Fault Management (CFM)
	RFC 768 UDP
	RFC 793 TFTP
	RFC 791 IP
	RFC 792 ICMP
	RFC 2068 HTTP
	RFC 1112 IGMP v1
	RFC 2236 IGMP v2
	RFC 3376 IGMP v3
	RFC 2710 MLD v1
	FRC 3810 MLD v2
	RFC 2328 OSPF v2
	ITU-T G.8032 ERPS Ring
	ITU-T Y.1731 Performance Monitoring
Environment	TO TELEVISION MONICOLLING
Operating	-40 ~ 75 degrees C
Storage	-40 ~ 85 degrees C
Humidity	5 ~ 95% (non-condensing)



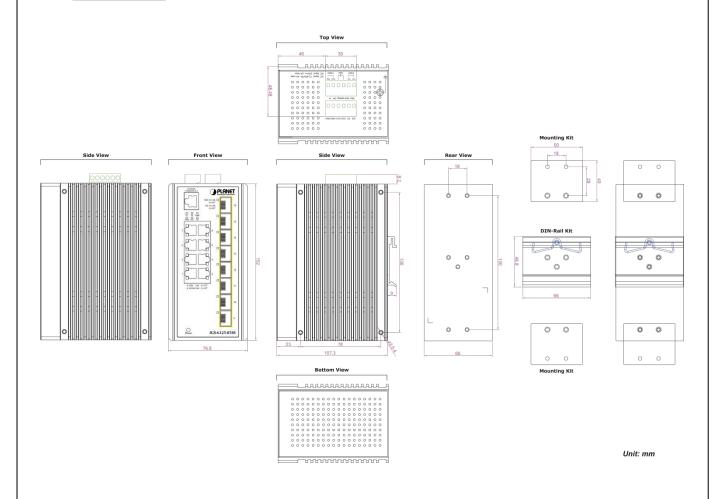
3.3 PHYSICAL SPECIFICATIONS:

Dimensions:

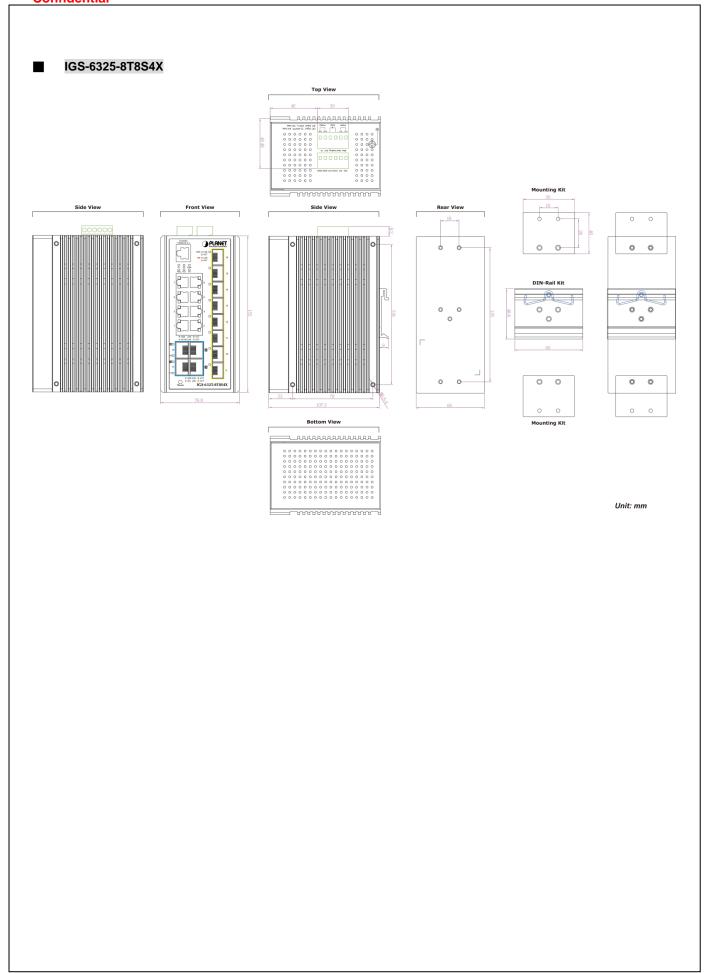
76.8 x 107 x 152 mm (W x D x H)

Drawing:

IGS-6325-8T8S

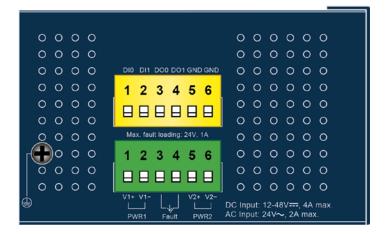




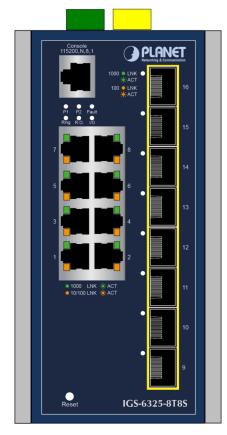


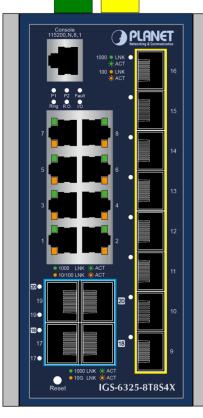


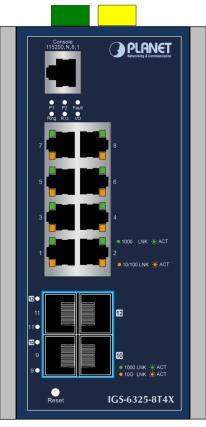
Top View



Front View







IGS-6325-8T8S

IGS-6325-8T8S4X

IGS-6325-8T4X



LED Definition:

■ System

LED	Color		Function	
R.O.*	Green	Lights to in	Lights to indicate Ring Owner is enabled.	
Ring	Green	Lights to in	ights to indicate that the ERPS Ring has been created successfully.	
DIDO	Dod	Blinking	Indicating the DI and DO events	
סטוט	DIDO Red	Off:	No event	
FALLET	D. d	Lit:	Indicating power failure or port problem.	
FAULT Red	Off:	No failure		
DWDO	C	Lit:	Power 2 is activated.	
PWR2	Green	Off:	Power 2 is not activated.	
DWD1	Groon	Lit:	Power 1 is activated.	
PWKI	PWR1 Green	Off:	Power 1 is not activated.	

■ Per 10/100/1000Mbps RJ45 port (Port-1 ~ Port-8)

LED	Color	Function		
1000	0	Lights:	To indicate the port is running at 1000Mbps speed and successfully established.	
LNK/ACT	LNK/ACT Green	Blinking:	To indicate that the switch is actively sending or receiving data over that port.	
10/100	0/100	Lights:	To indicate the port is running at 10/100Mbps speed and successfully established.	
I NK/ACT Amber	Blinking:	To indicate that the switch is actively sending or receiving data over that port.		

■ Per 100/1000BASE-X SFP Interface

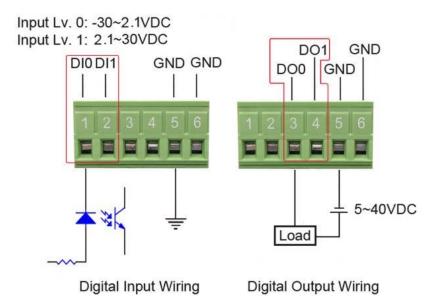
LED	Color	Function	
1000		Lights.	To indicate the port is successfully established at 1000Mbps.
LNK/ACT	Green	Blinking	To indicate that the Switch is actively sending or receiving data over that
		:	port.
		Lights:	To indicate the port is successfully established at 100Mbps.
100 LNK/ACT	Orange	Blinking	To indicate that the Switch is actively sending or receiving data over that
		:	port.

■ Per 10GBASE-SR/LR SFP+ port

LED	Color	Function		
1000 LNK/ACT	Green	Lights	To indicate the port is running at 1000Mbps speed.	
		Blinking	To indicate that the switch is actively sending or receiving data over that port.	
10G LNK/ACT	Orange	II iante	To indicate the port is running at 10GMbps speed and successfully established.	



■ DI/DO connector:



3.4 ENVIRONMENTAL SPECIFICATIONS

Operating:

Temperature: -40 ~75 degrees C

Relative Humidity: 5% ~ 95% (non-condensing)

Storage:

Temperature: -40 ~85 degrees C

Relative Humidity: 5% ~ 95% (non-condensing)

3.5 ELECTRICAL SPECIFICATIONS

Power Requirements:

DC 12~48V and AC 24V, redundant power with reverse polarity protection

Power Consumption:

LOADING	System on without any devices attached			Ethernet Full Loading (RJ45-SFP)		
Power INPUT	IGS-6325- 8T8S	IGS-6325- 8T8S4X	IGS-6325- 8T4X	IGS-6325- 8T8S	IGS-6325- 8T8S4X	IGS-6325- 8T4X
DC 12V	8.4W	10.8W	9W	37.7W	43.44W	39.5W
DC 24V	8.16W	11.28W	10.3W	30.2W	36.00W	32.0W
DC 48V	9.12W	12W	11W	33.6W	39.36W	35.4W
AC 24V	12W	13W	12W	32.2W	38W	34W

^{*} The maximum full loading is tested with RJ45-to-SFP transceivers.



3.6 REGULATORY COMPLIANCE

FCC Part 15 Class A

CE:

• EN55032

• EN55035

EN 62368-1/IEC 62368-1: 2014

Stability Testing:

• IEC60068-2-32 (Free Fall)

• IEC60068-2-27 (Shock)

• IEC60068-2-6 (Vibration)

3.7 RELIABILITY

MTBF > 100,000hrs @ 25 degrees C

3.8 BASIC PACKAGING

Models	IGS-6325-8T8S	IGS-6325-8T8S4X	IGS-6325-8T4X
☑ The Industrial Managed Switch	x 1	x 1	x 1
☑ Quick Installation Guide	x 1	x 1	x 1
☑ RJ45-to-DB9 RS232 cable	x 1	x 1	x 1
☑ DIN-rail Kit	x 1	x 1	x 1
☑ Wall Mounting Kit	x 1	x 1	x 1
☑ RJ45 Dust Cap	x 9	x 9	x 9
☑ SFP Dust Cap	x 8	x 12	x 4

3.9 PACKING INFORMATION

Models	IGS-6325-8T8S	IGS-6325-8T8S4X	IGS-6325-8T4X
Box Dimensions (W x D x H):	300 x 170 x 90 mm		
Gross Weight:	1.54	1.59	TBD
Carton Dimensions (W x D x H):	385 x 340 x 490 mm		
Total Weight:	16.2 kg	16.7 kg	TBD
Quantity:	10pcs in one carton		