Industrial Layer 3 5-Slot Modular Managed Ethernet Switch

TAIWAN EXCELLENCE 2024

The IMS-4S and IMS-4T shown in the photo are not included and must be purchased separately.

Industrial-grade Modular Switch for Versatile and Demanding Networks

PLANET **IMS-6325-5 L3 DIN-rail Industrial Modular Ethernet Switch** is a cutting-edge solution combining flexibility with high-performance capabilities. With a modular design that supports up to **5 interchangeable modules**, it accommodates various networking needs with **options like**:

- **IMS-4T: 4-Port 10/100/1000BASE-T copper module**
- **IMS-4S: 4-Port 100/1000BASE-X SFP slot module**
- **IMS-4P-E: 4-Port 10/100/1000BASE-T 802.3bt PoE++ PSE copper module**

Additionally, **two fixed modules** provide **4 Gigabit copper ports** and **4 10G SFP+ ports**, while the other offers digital input and output for control and a power terminal block for **12-48V DC power redundancy**.

The IMS-6325-5 includes advanced **Layer 3 features**, such as dynamic **IPv6/IPv4 routing protocols (OSPFv2/v3 and RIPv2)**, optimizing network traffic management across complex environments. Equipped with **ITU-T G.8032 ERPS Ring technology** for **sub-10ms recovery**, this switch ensures a resilient network backbone. Additionally, with precision timing support and robust **cybersecurity features**, the IMS-6325-5 is designed for reliable, secure operation in temperatures ranging from **-40** to **75 degrees Celsius**, making it an ideal solution for industrial automation and mission-critical applications.

Seamless Network Expansion with Modular Flexibility

The IMS-6325-5's modular design offers unmatched flexibility, allowing you to customize and **expand your network as your needs evolve**. With support for up to five modules, you can seamlessly integrate various port types, including copper and fiber, all within a single chassis. This adaptability minimizes the need for additional switches,

Physical Port

- **4 10/100/1000BASE-T Gigabit Ethernet RJ45 ports**
- **4 10GBASE-SR/LR SFP+ slots**, backward compatible with 1G/2.5GBASE-X SFP
- **Expandable with up to 5 modules**, supporting various interface types:
  - **IMS-4T**: 4-port 10/100/1000BASE-T RJ45 module
  - **IMS-4S**: 4-port 100/1000X SFP Module
  - **IMS-4P-E**: 4-Port 10/100/1000T 802.3bt PoE++ module
- One RJ45-to-RS232 console interface for basic management and setup

Industrial Protocol

- Modbus TCP for real-time monitoring in the SCADA system
- Supports IEEE 1588v2 PTP (Precision Time Protocol) with boundary and transparent clock modes

Industrial Design and Installation

- DIN-rail or wall-mountable IP30 metal housing
- Fanless design ensures quiet operation with efficient heat dissipation
- Dual 12~48V DC power input on main chassis with reverse polarity protection (Powers IMS-4T and IMS-4S modules internally)
- Dedicated 48~54V DC power input to support high-power **IMS-4P-E** PoE++ modules
- -40°C to 75°C operating temperature for main switch chassis, IMS-4T, and IMS-4S modules in harsh environments
- -20°C to 60°C operating temperature when equipped with high-power IMS-4P-E PoE++ modules

Digital Input and Digital Output

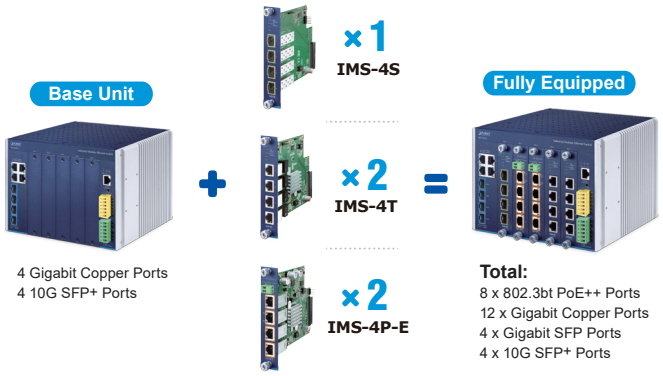
- **2 digital inputs**
- **2 digital outputs**
- Integrates sensors into auto-alarm system
- Transfer alarms to IP networks via **email and SNMP trap**

Layer 3 IP Routing Features

- IPv4 dynamic routing protocol supports **RIPv1/v2** and **OSPFv2**
- IPv6 dynamic routing protocol supports **OSPFv3**
- IPv4/IPv6 hardware static routing

reducing both equipment costs and installation complexity. Modules are easy to install, allowing users to quickly reconfigure their network by powering down the switch, swapping out modules, and powering it back on. Ideal for industrial environments, this modular switch **future-proofs your network** with lasting value and performance.

Free to choose and install the exact expansion cards



Compact and Resilient Design for Extreme Industrial Environments

Featuring a ruggedized chassis that supports both DIN-rail and wall-mount installation, the switch can be securely positioned in various industrial settings. Its compact form factor is built to withstand extreme temperatures, from -40 to 75 degrees Celsius, making it suitable for harsh environments. The IP30-rated enclosure provides robust protection against dust and debris, ensuring long-lasting performance in demanding conditions.

High-speed 10G SFP+ Ports for Advanced Connectivity

The IMS-6325-5 includes four 10G SFP+ slots on its fixed module, supporting 10GBASE-SR/LR, 2500BASE-X, and 1000BASE-SX/LX transceivers. This flexibility allows users to choose the right transceiver for specific speeds and distances, delivering broad bandwidth and high-performance connectivity. Ideal for data-intensive applications such as video surveillance and data centers, these ports enable efficient network scaling and ensure a robust, adaptable infrastructure for demanding environments.

Managed 802.3bt PoE++ Expansion

Designed for industrial applications requiring high-power PoE, the **IMS-4P-E** is a **4-port 802.3bt PoE++ module** that brings advanced managed PoE capabilities directly to the IMS-6325-5 platform. Supporting up to 95W of power output per port, the IMS-6325-5 can host up to five IMS-4P-E modules to deliver a total of **20 managed PoE ports** alongside four 10G SFP+ interfaces.

This high-density configuration is housed in a space-saving 10-inch DIN-rail design, significantly reducing cabinet space compared to traditional 19-inch PoE switches. Furthermore, its intelligent PoE management features—including **PoE power monitoring**, **scheduling**, time-based **remote PD reboot**, and **PD Alive Check**—help reduce costly on-site visits and maximize network uptime.

- Routing interface provides per VLAN routing mode

Layer 2 Features

- High-performance Store-and-Forward architecture, with runt/CRC filtering to optimize network bandwidth
- Storm Control support
  - Broadcast/Multicast/Unicast
- VLAN support
  - IEEE 802.1Q tagged VLAN
  - 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)
- **Spanning Tree Protocols**
  - 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
- **Link Aggregation**
  - IEEE 802.3ad Link Aggregation Control Protocol (LACP)
  - Static trunk groups with up to 10 groups and 12 ports per group
- Supports port mirroring for many-to-one connections.
- Port mirroring to monitor the incoming or outgoing traffic on a particular port
- Loop protection to avoid broadcast loops
- Link Layer Discovery Protocol (LLDP)
- **Supports ITU-T G.8032 ERPS Ring** for fast network recovery in ring topologies

Quality of Service

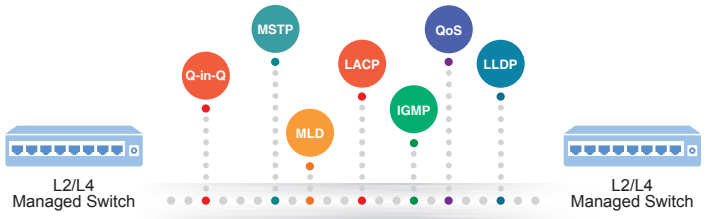
- Ingress shaper and egress rate limit per port bandwidth control
- 8 priority queues on all switch ports
- Traffic classification
  - IEEE 802.1p CoS
  - ToS/DSCP/IP Precedence of IPv4/Ipv6 packets
  - IP TCP/UDP port number
  - Typical network application
- Strict priority and Weighted Round Robin (WRR) CoS policies
- Supports QoS and In/Out bandwidth control on each port
- Traffic-policing on the switch port

Advanced Layer 3 Routing Support

The IMS-6325-5 includes comprehensive Layer 3 features, supporting both IPv4 OSPFv2 and RIPv1/v2, as well as IPv6 OSPFv3 dynamic routing protocols. This enables efficient traffic management and flexible network routing across diverse environments. With the capability for up to 128 VLAN interfaces and 4K routing entries, the switch supports seamless inter-network communication and optimized data flow. These features make it well-suited for industrial networks requiring advanced routing capabilities, accommodating both IPv4 and IPv6 protocols for long-term scalability and adaptability.

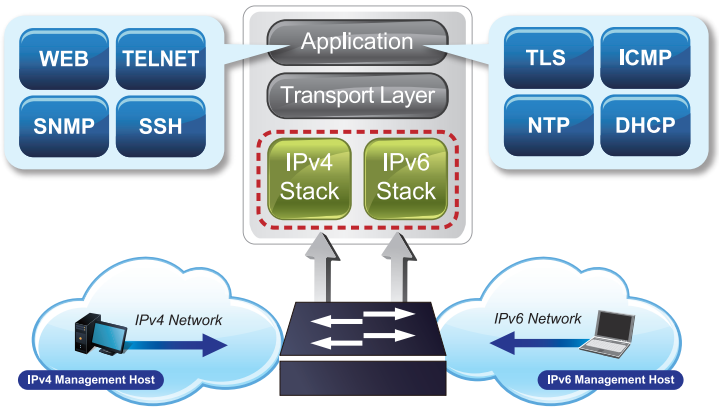
Robust Layer 2 Features

The IMS-6325-5 offers a robust suite of Layer 2 features designed to enhance network efficiency and control. It supports VLAN tagging with 802.1Q, allowing for secure and segmented traffic within the network, along with advanced VLAN types like Q-in-Q tunneling and MAC-based VLAN. For traffic management, the switch provides Link Aggregation for increased bandwidth and reliability, as well as advanced Quality of Service (QoS) capabilities, including traffic prioritization and rate limiting on a per-port basis. Additionally, it includes Spanning Tree Protocols (STP, RSTP, and MSTP) to prevent network loops and ensure stability, making it ideal for complex industrial networks.



IPv6/IPv4 Dual Stack

The IMS-6325-5's IPv6/IPv4 dual stack support ensures compatibility with both legacy and modern IP networks, providing a future-proof solution for evolving network infrastructures. By supporting IPv6 alongside IPv4, it enables smooth transitions and robust network performance, adapting easily to diverse protocol requirements and facilitating long-term scalability.



- DSCP remarking
- Voice VLAN for prioritizing VoIP traffic

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
  - Guest VLAN assigns clients to a restricted VLAN with limited services.
  - Built-in RADIUS client for centralized authentication
  - TACACS+ login 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 untrusted DHCP messages
- **Dynamic ARP Inspection** to discard invalid ARP packets
- **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
  - HTTP/HTTPs Web 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 notifications
- IPv6 IP address/NTP/DNS management
- Built-in Trivial File Transfer Protocol (TFTP) client
- BOOTP and DHCP for IP address assignment
- System Maintenance

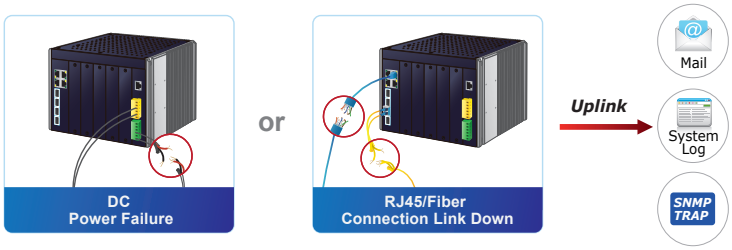
Comprehensive Cybersecurity for Secure and Controlled Network Access

The IMS-6325-5's cybersecurity features are designed to ensure comprehensive network protection and secure management. It includes advanced Access Control Lists (ACLs) supporting Layers 2, 3, and 4, allowing for precise traffic filtering based on MAC addresses, IP addresses, and protocols. The switch also supports IEEE 802.1X port-based authentication, IP-MAC port binding, and MAC filtering for enhanced access control. Additionally, with secure management interfaces such as SSHv2, TLSv1.2, and SNMPv3, the switch provides encrypted communication and robust management security. These features make the IMS-6325-5 a reliable choice for safeguarding industrial networks.

Proactive Fault Alarm for Enhanced Network Reliability

The IMS-6325-5's Fault Alarm feature enhances reliability by monitoring power and port failures. This relay alarm system triggers alerts when issues occur, enabling swift troubleshooting and minimizing downtime. Configurable through software, the Fault Alarm ensures timely notifications, making the IMS-6325-5 ideal for mission-critical environments requiring continuous operation.

Fault Alarm Feature

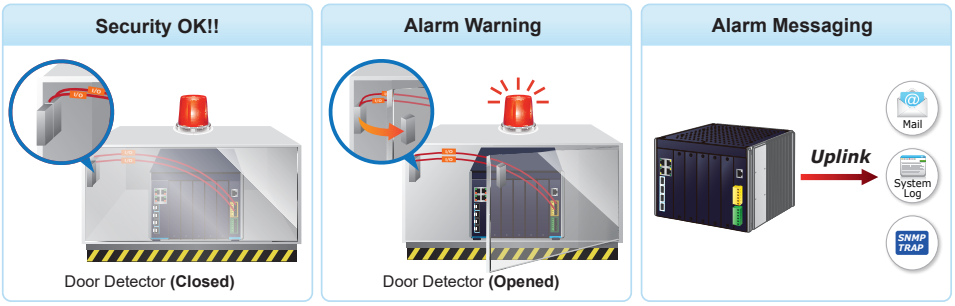


  - Firmware upload/download via HTTP/TFTP
  - Reset button for system reboot or reset to factory default
  - Dual images for firmware redundancy
- DHCP Functions:
  - DHCP Relay
  - DHCP Option82
  - DHCP Server capabilities
- User Privilege levels control
- Network Time Protocol (NTP)
- Network Diagnositc
  - SFP-DDM (Digital Diagnostic Monitor)
  - ICMPv6/ICMPv4 Remote Ping
  - Cable diagnostic technology to detect and report cabling issues
- SMTP/Syslog remote alarm
- System Log
- PLANET Smart Discovery utility automatically finds PLANET devices on the network
- PLANET NMS system and CloudNMS for deployment management

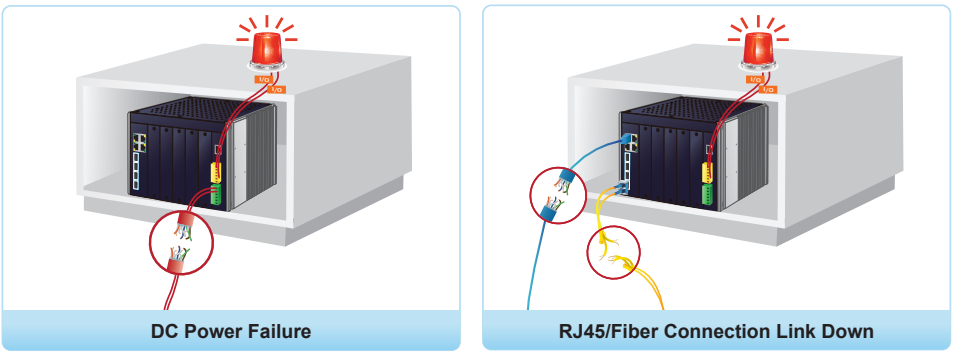
Integrated DI and DO for Enhanced Monitoring and Automation

The IMS-6325-5 features DI and DO capabilities, which enable seamless integration with external devices for enhanced monitoring and control. The two DI ports can connect to sensors or other equipment to monitor external conditions, such as door status or alarm systems. The two DO ports allow the switch to send control signals to external devices, such as activating alarms or signaling other equipment in response to specific events. The DI and DO functionalities make the IMS-6325-5 highly adaptable for industrial applications, enabling automated responses and improved overall system management.

Digital Input



Digital Output



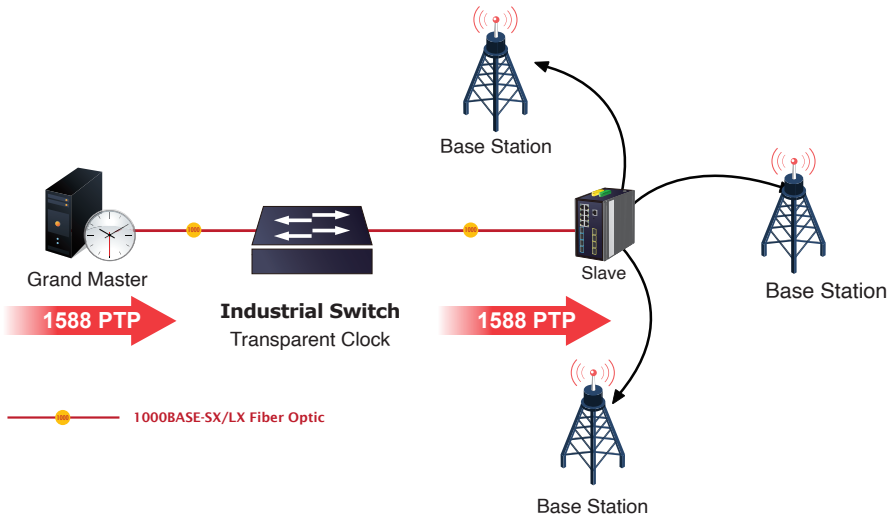
Modbus TCP Provides Flexible Network Connectivity for Factory Automation

With the supported **Modbus TCP/IP** protocol, the IMS-6325-5 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.

Accurate Time Synchronization with IEEE 1588v2 PTP Support

The IMS-6325-5 supports IEEE 1588v2 Precision Time Protocol (PTP) for precise time synchronization, essential in industries like automation and telecom. It operates as a transparent clock, improving timing accuracy across devices. This capability enhances efficiency and supports real-time applications that rely on synchronized data.

Time Synchronization in Network



Comprehensive and Secure Management Interface Options

For efficient management, the IMS-6325-5 is equipped with console, web, and SNMP management interfaces.

- With a **built-in web-based management interface**, the IMS-6325-5 provides an intuitive, platform-independent facility for easy configuration and monitoring.
- For **text-based management**, it can be accessed via **Telnet** and the console port.
- For **secure**, **standards-based monitoring and management**, it supports **SNMPv1**, **v2c**, **and SNMPv3**, **with SNMPv3** providing encrypted sessions for safe remote management.
- Secure access is further enhanced with support for SSHv2 and TLSv1.2, protecting against unauthorized access and ensuring data integrity.

PLANET CloudNMS – Cloud-Based Universal Network Management

PLANET's CloudNMS platform and mobile app empower IT staff to remotely manage all network devices and Powered Devices (PDs) in real time. Designed for enterprises and industries, CloudNMS minimizes the need for on-site troubleshooting by providing centralized monitoring, fault detection, and instant alerts.

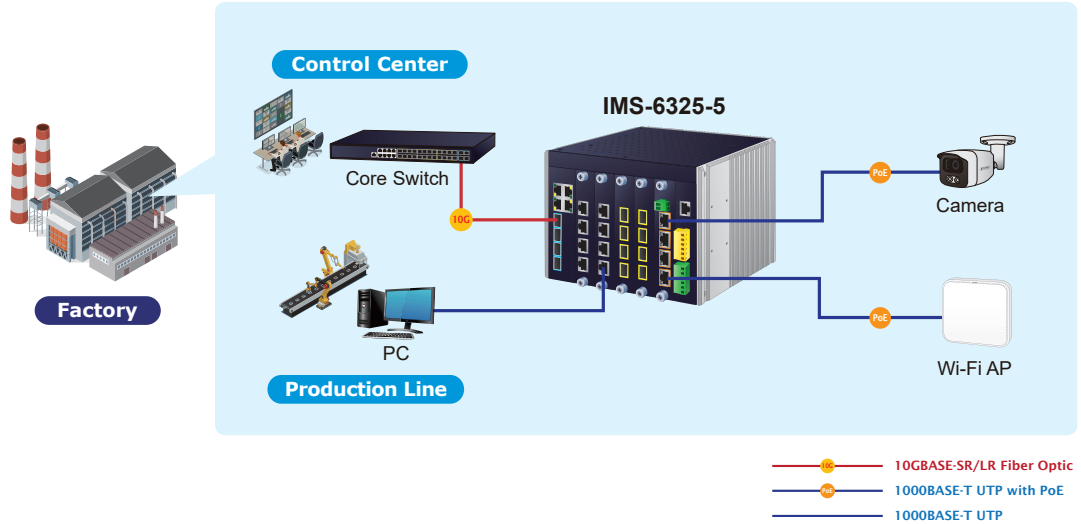
With CloudNMS, businesses can manage diverse network deployments more efficiently, securely, and intelligently—all from a single cloud-based platform.

Applications

Industrial Network Solution for Factory Automation

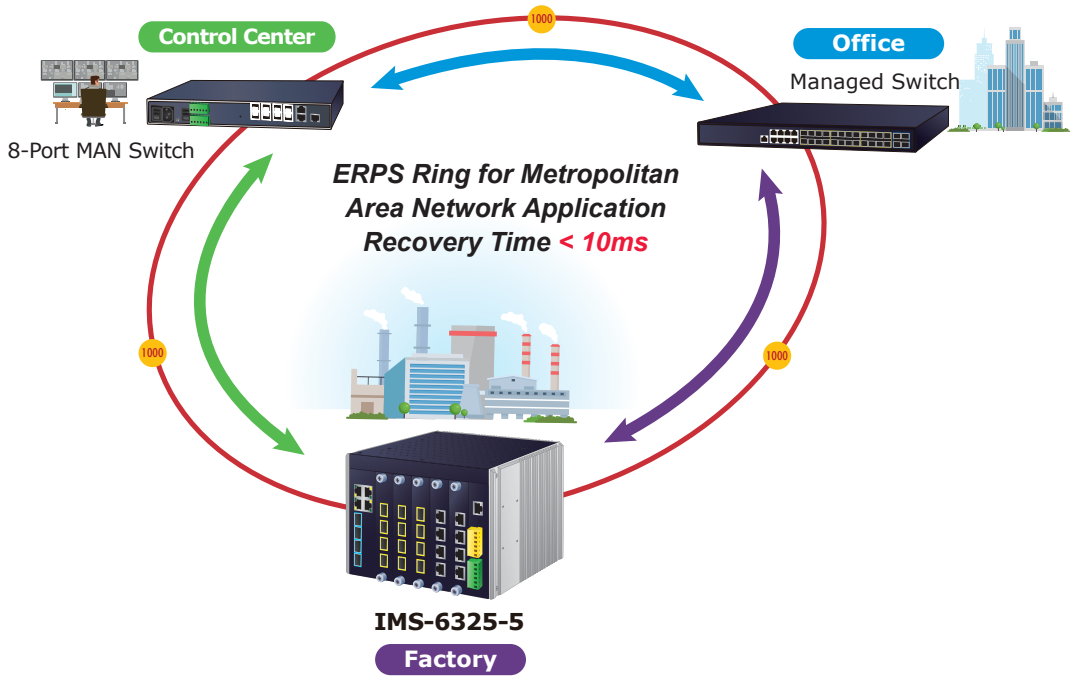
The **IMS-6325-5** Industrial Modular Switch serves as a high-performance, reliable backbone for factory automation. This setup ensures efficient data exchange between critical devices on the factory floor.

The IMS-4P-E works with IMS-4T copper and IMS-4S fiber modules, allowing integrators to build the right port mix for smart factories, control center, surveillance, and production line. Each slot can match real needs, helping avoid unused interfaces and unnecessary power consumption for efficient, ESG-oriented deployment.



Redundant Ring, Fast Recovery for Critical Network Applications

The IMS-6325-5 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 **dual 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**.



Specifications

Product	IMS-6325-5
Hardware Specifications	
Copper Ports	4 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
SFP+ Slots	4 10GBASE-SR/LR SFP+ interfaces (Ports 9-12); backward compatible with 1G/2.5GBASE-X SFP transceivers
Expansion Slots	Supports up to 5 modules for flexible port configuration, including: - IMS-4T: 4-port 10/100/1000BASE-T RJ45 - IMS-4S: 4-port 100/1G SFP slot - IMS-4P-E: 4-Port 10/100/1000T 802.3bt PoE++ Switch Module
Console	1 x RJ45-to-RS232 serial port (115200, 8, N, 1)
Reset Button	< 5 sec: reboot > 5 sec: factory default reset
ESD Protection	Contact: 6KV DC; Air: 8KV DC
Connector	6-pin terminal block for power input (DC1 & DC2), and 6-pin terminal block for DI/DO interfaces
Alarm	2-pin relay alarm for power failure; alarm relay current carry ability: 1A @ 24V DC
Digital Input (DI)	2 digital input (DI): Level 0: -24V~2.1V (±0.1V) Input load to 24VDC, 10mA max. Level 1: 2.1V~24V (±0.1V)
Digital Output (DO)	2 digital output (DO): Open collector to 24V DC, 100mA max.
Enclosure	IP30 metal case
Installation	DIN-rail or wall-mount kit
SDRAM	512MB x 4
Flash Memory	128MB
Dimensions (W x D x H)	217 x 135 x 152 mm
Weight	3,590g
Power Requirements	Dual 12~48V DC power inputs

<table>
<tr><td rowspan="13">Power Consumption</td><td colspan="4">DC 12V (Dual input)</td></tr>
<tr><td>Expansion Slots</td><td>No Loading</td><td>Full Loading</td><td>Max. Current</td></tr>
<tr><td>No expansion cards</td><td>12.48W / 42.57 BTU</td><td>24.84W / 84.77 BTU</td><td>2.5A</td></tr>
<tr><td>IMS-4T x 5</td><td>20.16W / 68.83 BTU</td><td>44.64W / 152.32 BTU</td><td>3.72A</td></tr>
<tr><td>IMS-4S x 5</td><td>20.16W / 68.83 BTU</td><td>53.76W / 183.40 BTU</td><td>4.48A</td></tr>
<tr><td colspan="4">DC 48V (Dual Input)</td></tr>
<tr><td>Expansion Slots</td><td>No Loading</td><td>Full Loading</td><td>Max. Current</td></tr>
<tr><td>No expansion cards</td><td>18.72W / 63.87 BTU</td><td>31.20W / 106.46 BTU</td><td>0.9A</td></tr>
<tr><td>IMS-4T x 5</td><td>26.88W / 91.68 BTU</td><td>44.64W / 152.32 BTU</td><td>1.01A</td></tr>
<tr><td>IMS-4S x 5</td><td>26.88W / 91.68 BTU</td><td>54.72W / 186.74 BTU</td><td>1.14A</td></tr>
<tr><td colspan="4">IMS-4P-E with dedicated 48~54V DC power input</td></tr>
<tr><td>Expansion Slots</td><td>No Loading</td><td>Full Loading</td><td>Max. Current</td></tr>
<tr><td>IMS-4P-E (DC 48V)</td><td>NA</td><td>194W / 661 BTU</td><td>4.05A</td></tr>
<tr><td>IMS-4P-E (DC 54V)</td><td>NA</td><td>185W / 631 BTU</td><td>3.42A</td></tr>
<tr><td>LED Indicators</td><td colspan="4">System
P1 (Green)
P2 (Green)
Alarm (Red)
Ring (Green)
R.O. (Green)
I/O (Red)

RJ45 Ports (Ports 1 to 4)
1000 LNK/ACT (Green); 10/100 LNK/ACT (Amber)

10G SFP+ Slot (Ports 5 to 8)
10G LNK/ACT (Amber); 1G/2.5G LNK/ACT (Green)

IMS-4T (4-port 10/100/1000T RJ45 copper module)
Status: On(Green)
1000 LNK/ACT (Green); 10/100 LNK/ACT (Amber)

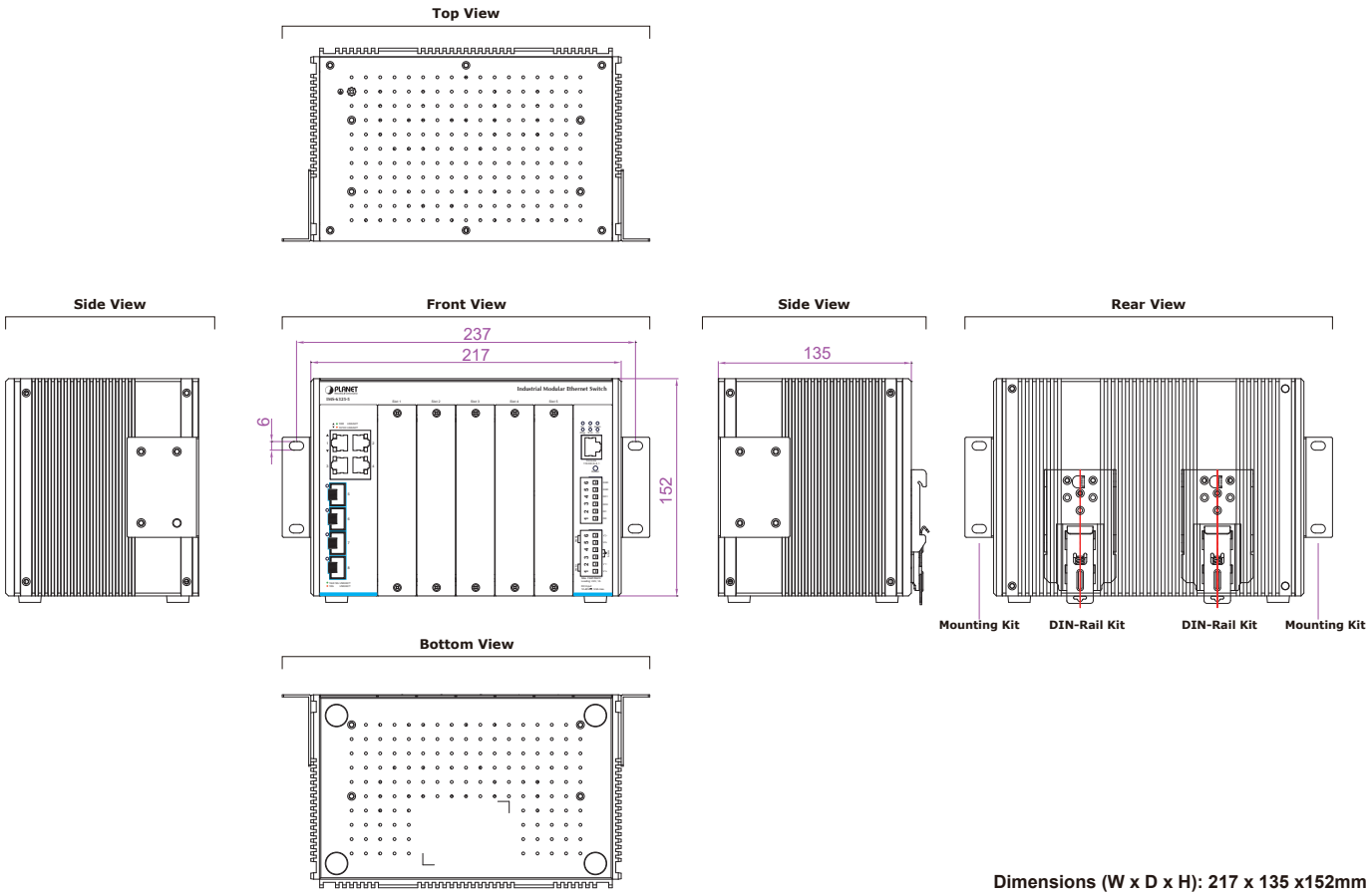
IMS-4S (4-Port 100/1000BASE-X SFP slot module)
Status: On(Green)
1000 LNK/ACT (Green); 100 LNK/ACT (Amber)

IMS-4P-E (4-Port 10/100/1000T 802.3bt PoE++ module)
Status: On(Green)
Module Power: On(Green)
1000 LNK/ACT (Green); 10/100 LNK/ACT (Amber),
bt PoE (Green); at PoE (Amber)</td></tr>
<tr><td colspan="5">Switching Specifications</td></tr>
<tr><td>Switch Architecture</td><td colspan="4">Store-and-Forward</td></tr>
<tr><td>Switch Fabric</td><td colspan="4">88Gbps/non-blocking; 128Gbps/non-blocking with 5 switch modules</td></tr>
<tr><td>Throughput (packet per second)</td><td colspan="4">95.2Mpps@ 64 bytes packet</td></tr>
<tr><td>Address Table</td><td colspan="4">32K entries, automatic source address learning and aging</td></tr>
<tr><td>Shared Data Buffer</td><td colspan="4">32M bits</td></tr>
<tr><td>Flow Control</td><td colspan="4">IEEE 802.3x pause frame for full duplex
Back pressure for half duplex</td></tr>
<tr><td>Jumbo Frame</td><td colspan="4">10K bytes</td></tr>
<tr><td colspan="5">Layer 3 Function</td></tr>
<tr><td>IP Interfaces</td><td colspan="4">Max. 128 VLAN interfaces</td></tr>
<tr><td>Routing Table</td><td colspan="4">Max. 4K routing table entries</td></tr>
<tr><td>Routing Protocols</td><td colspan="4">IPv4 RIPv1/v2 dynamic routing
IPv4 OSPFv2 dynamic routing
IPv6 OSPFv3 dynamic routing
IPv4/IPv6 hardware static routing</td></tr>
<tr><td colspan="5">Layer 2 Function</td></tr>
<tr><td>Port Configuration</td><td colspan="4">Port disable/enable
Auto-negotiation 10/100/1000Mbps full and half duplex mode selection
Flow control disable/enable
Port link capability control</td></tr>
<tr><td>Port Status</td><td colspan="4">Display each port's speed duplex mode, link status, flow control status, auto negotiation status, trunk status</td></tr>
</table>

Port Mirroring	TX / RX / Both Many-to-1 monitor RMirror – Remote Switched Port Analyzer (Cisco RSPAN) Supports up to 5 sessions
VLAN	IEEE 802.1Q tag-based VLAN IEEE 802.1ad Q-in-Q tunneling 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 4096 VLAN IDs
Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol Supports 7 MSTP instances BPDU Guard, BPDU filtering and BPDU transparent Root Guard
IGMP Snooping	IPv4 IGMP (v1/v2/v3) snooping IPv4 IGMP querier mode support Up to 2K multicast groups
MLD Snooping	IPv6 MLD (v1/v2) snooping IPv6 MLD querier mode support Up to 512 multicast groups
Bandwidth Control	Per port bandwidth control Ingress: 10Kbps~13000Mbps Egress: 100Kbps~13000Mbps
Ring	Supports ERPS, and complies with ITU-T G.8032 Recovery time < 10ms @ 3 nodes Recovery time < 50ms @ 16 nodes Supports Major ring and sub-ring
Synchronization	IEEE 1588v2 PTP (Precision Time Protocol) Peer-to-peer transparent clock End-to-end transparent clock
QoS	Traffic classification based, strict priority and WRR 8-level priority for switching - Port number - 802.1p priority - 802.1Q VLAN tag - DSCP/TOS field in IP packet
Security Functions	
Access Control List	IP-based ACL/MAC-based ACL ACL based on: MAC Address IP Address Ethertype Protocol Type VLAN ID DSCP 802.1p Priority Up to 512 entries
Security	Port security IP source guard, up to 512 entries 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
Network Access Control	IEEE 802.1x port-based network access control MAC-based authentication Local/RADIUS authentication

Management		
Basic Management Interfaces	Console; Telnet; Web browser; SNMP v1, v2c	
Secure Management Interfaces	SSHv2, TLSv1.2, SNMP v3	
System Management	Firmware upgrade by HTTP protocol through Ethernet network Configuration upload/download through HTTP Remote Syslog System log LLDP protocol NTP PLANET Smart Discovery Utility PLANET CloudNMS	
SNMP MIBs	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 (Groups 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 4292 IP Forward MIB IEEE 802.1X PAE RFC 4293 IP MIB RFC 4836 MAU-MIB IEEE 802.1X PAE LLDP PowerEthernet MIB	
PoE Management Functions (with IMS-4P-E)		
PoE PSE	802.3bt mode/End-span mode/Mid-span mode	
Power Budget	Max. 180 watts@25 degrees C Max. 120 watts@60 degrees C	
Enhanced PoE Mode	Standard/ Legacy/ Force	
PoE Management	PD Alive Check	
Active PoE Device Live Detection	Yes	
PoE Power Recycling	Yes, daily or predefined schedule	
PoE Schedule	4 schedule profiles	
PoE Extend Mode	Yes, max. up to 250 meters	
Standards Conformance		
Regulatory Compliance	FCC Part 15 Class A CE: EN55032 EN55035	
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000T IEEE 802.3ae 10Gigabit 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 802.1ad Q-in-Q VLAN stacking IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3ah OAM	IEEE 1588 PTPv2 RFC 768 UDP RFC 783 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP version 3 RFC 2710 MLD version 1 RFC 3810 MLD version 2 RFC 2328 OSPF v2 RFC 5340 OSPF v3 RFC 2453 RIP v2 ITU-T G.8032 ERPS Ring
Environment		
Operating Temperature	-40 ~ 75 degrees C	
Storage Temperature	-40 ~ 85 degrees C	
Humidity	5 ~ 95% (non-condensing)	

Dimensions



Dimensions (W x D x H): 217 x 135 x152mm

Ordering Information

IMS-6325-5	Industrial Layer 3 5-Slot Modular Managed Ethernet Switch (-40~75 degrees C)
IMS-4T	4-Port 10/100/1000T Switch Module for IMS-6325-5 (-40~75 degrees C)
IMS-4S	4-Port 100/1000X SFP Switch Module for IMS-6325-5 (-40~75 degrees C)
IMS-4P-E	4-Port 10/100/1000T 802.3bt PoE++ Switch Module for IMS-6325-5 (-20~60 degrees C)

Related Products

IGS-6325-16T4X	Industrial L3 16-Port 10/100/1000BASE-T + 4-Port 10GBASE-X SFP+ Managed Switch (-40~75 degrees C)
IGS-6325-4UP2X	Industrial L3 4-Port 2.5GBASE-T 802.3bt PoE + 2-Port 10GBASE-X SFP+ Managed Ethernet Switch (-40~75 degrees C)
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)
MGB Series Transceivers	1000BASE-SX/LX SFP Transceiver
MFB-Series Transceivers	100BASE-FX SFP Transceiver
PWR-120-48/PWR-240-48/ PWR-480-48/PWR-960-48	DC Single Output Industrial DIN-rail Power Supply Units

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