PRODUKTDOKUMENTATION

IMS-4T / IMS-4S / IMS-4P-E

Gigabit expansionsmoduler for IMS-6325-5

KONTAKT

SVERIGE

www.direktronik.se

Telefon +46 8 52 400 700

info@direktronik.se

NORGE

www.direktronik.no

Telefon +47 55 50 91 50

info@direktronik.no

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Gigabit Switch Module for IMS-6325-5



Industrial-grade Gigabit Copper Expansion Module

The PLANET IMS-4T is a dedicated 4-port 10/100/1000BASE-T RJ45 expansion module designed exclusively for the IMS-6325-5 Industrial Modular Switch, it allows effortless scaling of copper-based connections, providing high-speed data transmission for field devices. Built to withstand harsh environments, the IMS-4T ensures seamless integration into the IMS-6325-5 Industrial Modular Switch, maintaining the system's robust performance in temperatures ranging from -40 to 75°C.

- Tailored Integration: Specifically engineered to fit the IMS-6325-5 Industrial Modular Switch modular slots.
- Plug-and-Play: Simplifies network expansion without complex hardware configuration.
- Industrial Durability: Supports mission-critical operations in extreme industrial conditions.

Versatile Fiber-Optic Connectivity Module

The PLANET IMS-4S is a professional 4-port 100/1000BASE-X SFP expansion module tailored for the IMS-6325-5 Industrial Modular Switch. This module provides the flexibility to extend network distances via fiber optics while offering superior immunity to electromagnetic interference. By supporting dual-speed SFP transceivers, the IMS-4S enables the IMS-6325-5 to adapt to various long-range communication requirements in industrial automation and smart city infrastructures.

- Fiber Flexibility: Supports both 100Mbps and 1000Mbps SFP modules for diverse transmission needs.
- Enhanced Reliability: Ideal for long-distance uplinks in electrically noisy industrial environments.
- Wide Temperature Resilience: Operates reliably within the -40 to 75°C range, consistent with the IMS-6325-5 host specifications.

IMS-4T Physical Port

- **4 10/100/1000BASE-T Gigabit Ethernet RJ45 ports module**

IMS-4S Physical Port

- **4 100/1000BASE-X Gigabit Ethernet SFP slots module**

Industrial Design and Installation

- Operating temperature ranges from **-40°C** to **75°C**, suitable for harsh environments

IMS-4P-E Physical Port

- **4 10/100/1000BASE-T 802.3bt PoE++RJ45 ports module, up to 95-watt output per PoE++ port**
- **Up to 20 managed PoE++ ports when five IMS-4P-E modules are installed**
- **Intelligent PoE management: PD Alive Check, Scheduled Power Recycling, PoE Schedule and PoE usage monitoring**

Industrial Design and Installation

- Operating temperature ranges from **-20°C** to **60°C,** suitable for harsh environments

Managed 802.3bt PoE++ Expansion for the IMS Modular Platform

The PLANET IMS-4P-E is a 4-port 802.3bt PoE++ injector line card for the IMS-6325-5 industrial modular managed switch. It adds high-power PoE directly to the IMS chassis without an extra PoE switch, combining Layer 3 switching, 10G uplinks, and PoE power delivery in one compact platform. With up to five IMS-4P-E modules, the IMS-6325-5 delivers up to 20 managed PoE ports plus 4 10G SFP+ interfaces in a 10-inch DIN-rail design, saving cabinet space versus 19-inch PoE switches.

Flexible Copper, Fiber and PoE Deployment

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

Intelligent PoE Control and Industrial Reliability

The PLANET IMS-4P-E supports PoE power monitoring, scheduling, remote PD reboot, and PD Alive Check. With ERPS ring redundancy, Layer 3 routing, and Modbus TCP from the IMS-6325-5, it helps reduce site visits and maintain uptime in harsh industrial networks.

Seamless Network Expansion with Modular Flexibility

The IMS-6325-5 is engineered with a modular architecture that delivers unmatched flexibility, allowing you to customize and scale your network as your operational requirements evolve.

With support for up to five interchangeable modules, you can seamlessly integrate a diverse mix of copper and fiber-optic ports within a single, compact chassis. This high adaptability eliminates the need for multiple switches, significantly reducing both CAPEX and installation complexity. The hardware is designed for easy integration: users can quickly reconfigure the network by powering down the switch, swapping modules, and rebooting.

Built to future-proof your infrastructure, the IMS-6325-5 ensures lasting value and high performance in the most demanding industrial environments. To meet these diverse connectivity needs, PLANET offers specialized expansion modules:

Recommended Expansion Modules for IMS-6325-5 Industrial Modular Switch:

IMS-4T (4-Port 10/100/1000BASE-T Module):

Specifically designed for high-density copper connectivity, the IMS-4T provides four Gigabit RJ45 ports, making it ideal for connecting localized industrial field devices and ensuring reliable wire-speed data transmission.

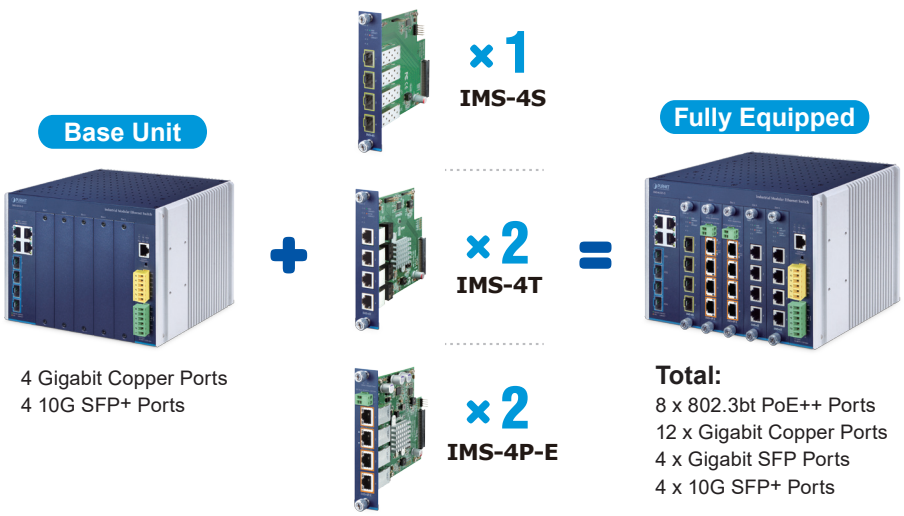
IMS-4S (4-Port 100/1000BASE-X SFP Module):

The IMS-4S offers four SFP slots for dual-rate fiber-optic transceivers. It is the perfect solution for long-distance data backhaul and provides superior immunity to electromagnetic interference (EMI) in harsh industrial settings.

IMS-4P-E (4-Port 10/100/1000T 802.3bt PoE++ Module):

Specifically designed for high-density copper connectivity, the IMS-4P-E provides four port 802.3bt PoE++ injector, making it adds high-power PoE directly to the IMS chassis without an extra PoE switch.

Free to choose and install the exact expansion cards

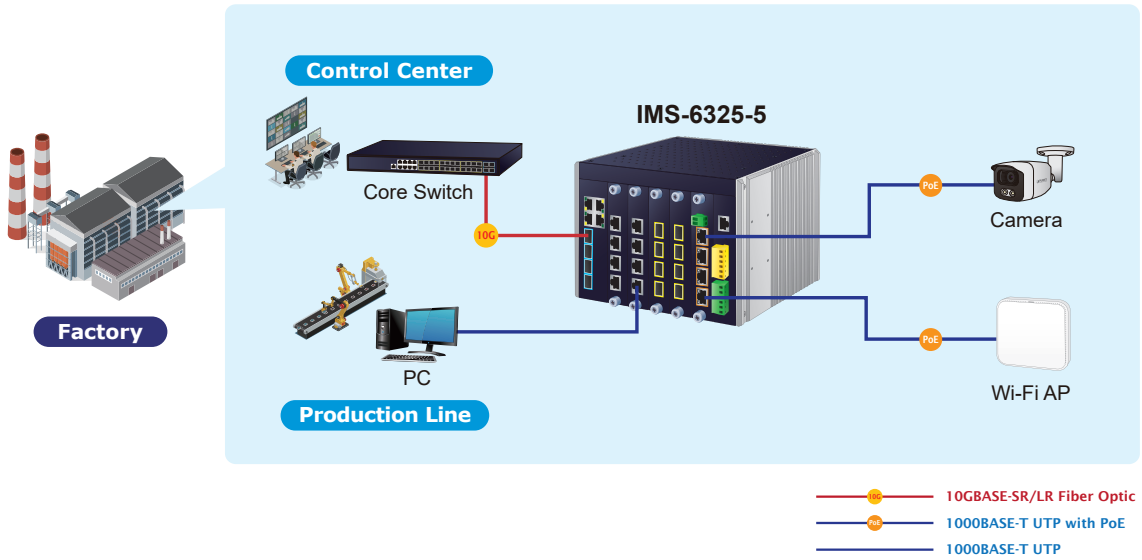


Applications

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.



Specifications

4-port Gigabit TP & 4-port Gigabit SFP Switch Module for IMS-6325-5		
Product	IMS-4T	IMS-4S
Hardware Specifications		
Copper Ports	4 x 10/100/1000BASE-T RJ45 ports	-
SFP/mini-GBIC Slots	-	4 x 100/1000BASE-SX/LX SFP slots
Switch Fabric	8Gbps	8Gbps
Throughput	5.9Mpps@64bytes	5.9Mpps@64bytes
LED	Status: On (Green) Gigabit RJ45 port: 1000 LNK/ACT (Green) 10/100 LNK/ACT (Amber)	Status: On (Green) Gigabit SFP Slot: 1000 LNK/ACT (Green) 100 LNK/ACT (Amber)
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000T	IEEE 802.3u 100BASE-FX IEEE 802.3z Gigabit SX/LX
Environment		
Operating Temperature	-40 ~ 75 degrees C	
Storage Temperature	-40 ~ 85 degrees C	
Humidity	5 ~ 95% (non-condensing)	

4-Port 10/100/1000T 802.3bt PoE++ Switch Module for IMS-6325-5	
Product	IMS-4P-E
Hardware Specifications	
Copper Ports	4 x 10/100/1000BASE-T 802.3bt PoE++ RJ45 ports
Switch Fabric	8Gbps
Throughput	5.9Mpps@64bytes
LED	Status: On (Green) Module Power: On (Green) Gigabit 802.3bt PoE++ Port: 1000 LNK/ACT (Green) 10/100 LNK/ACT (Amber) bt PoE (Green) at PoE (Amber)
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000T
Environment	
Operating Temperature	-20 ~ 60 degrees C
Storage Temperature	-40 ~ 85 degrees C
Humidity	5 ~ 95% (non-condensing)

Ordering Information

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

IMS-6325-5	Industrial Layer 3 5-Slot Modular Managed Ethernet Switch (-40~75 degrees C)

Available 100Mbps Modules for IMS-4S

Fast Ethernet Transceiver (100BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MFB-TFX	100	LC	Multi Mode	2km	1310nm	-40 ~ 85 °C
MFB-TF20	100	LC	Single Mode	20km	1550nm	-40 ~ 85 °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-TFA20	100	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 85 °C
MFB-TFB20	100	WDM(LC)	Single Mode	20km	1550nm	1310nm	-40 ~ 85 °C
MFB-TFA40	100	WDM(LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 85 °C
MFB-TFB40	100	WDM(LC)	Single Mode	40km	1550nm	1310nm	-40 ~ 85 °C

Available 1000Mbps Modules for IMS-4S

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-GT	--	1000	Copper	--	100m	--	0 ~ 60 °C
MGB-SX(V2)	YES	1000	LC	Multi Mode	550m	850nm	0 ~ 60 °C
MGB-SX2(V2)	YES	1000	LC	Multi Mode	2km	1310nm	0 ~ 60 °C
MGB-LX(V2)	YES	1000	LC	Single Mode	20km	1310nm	0 ~ 60 °C
MGB-L40	YES	1000	LC	Single Mode	40km	1310nm	0 ~ 60 °C
MGB-L80	YES	1000	LC	Single Mode	80km	1550nm	0 ~ 60 °C
MGB-L120(V2)	YES	1000	LC	Single Mode	120km	1550nm	0 ~ 60 °C

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

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MGB-LA10(V2)	YES	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	0 ~ 60 °C
MGB-LB10(V2)		1000	WDM(LC)	Single Mode	10km	1550nm	1310nm	0 ~ 60 °C
MGB-LA20(V2)	YES	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 °C
MGB-LB20(V2)		1000	WDM(LC)	Single Mode	20km	1550nm	1310nm	0 ~ 60 °C
MGB-LA40(V2)	YES	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	0 ~ 60 °C
MGB-LB40(V2)		1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	0 ~ 60 °C
MGB-LA80	YES	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	0 ~ 60 °C
MGB-LB80		1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	0 ~ 60 °C

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-TGT	1000	Copper	--	100m	--	-40 ~ 85 °C
MGB-TSX	1000	LC	Multi Mode	550m	850nm	-40 ~ 85 °C
MGB-TSX2	1000	LC	Multi Mode	2km	1310nm	-40 ~ 85 °C
MGB-TLX(V2)	1000	LC	Single Mode	20km	1310nm	-40 ~ 85 °C
MGB-TL30	1000	LC	Single Mode	30km	1310nm	-40 ~ 85 °C
MGB-TL40	1000	LC	Single Mode	40km	1310nm	-40 ~ 85 °C
MGB-TL70	1000	LC	Single Mode	70km	1550nm	-40 ~ 85 °C
MGB-TL80	1000	LC	Single Mode	80km	1550nm	-40 ~ 85 °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-TSA	1000	WDM(LC)	Single Mode	2km	1310nm	1550nm	-40 ~ 85 °C
MGB-TSB	1000	WDM(LC)	Single Mode	2km	1550nm	1490nm	-40 ~ 85 °C
MGB-TLA10(V2)	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	-40 ~ 85 °C
MGB-TLB10(V2)	1000	WDM(LC)	Single Mode	10km	1550nm	1310nm	-40 ~ 85 °C
MGB-TLA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 85 °C
MGB-TLB20	1000	WDM(LC)	Single Mode	20km	1550nm	1310nm	-40 ~ 85 °C
MGB-TLA40	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 85 °C
MGB-TLB40	1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	-40 ~ 85 °C
MGB-TLA60	1000	WDM(LC)	Single Mode	60km	1310nm	1550nm	-40 ~ 85 °C
MGB-TLB60	1000	WDM(LC)	Single Mode	60km	1550nm	1310nm	-40 ~ 85 °C
MGB-TLA80	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	-40 ~ 85 °C
MGB-TLB80	1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	-40 ~ 85 °C
MGB-TLA120	1000	WDM(LC)	Single Mode	120km	1490nm	1550nm	-40 ~ 85 °C
MGB-TLB120	1000	WDM(LC)	Single Mode	120km	1550nm	1490nm	-40 ~ 85 °C

PLANET Technology Corporation

11F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)

Tel: 886-2-2219-9518 Fax: 886-2-2219-9528

Email: sales@planet.com.tw www.planet.com.tw

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