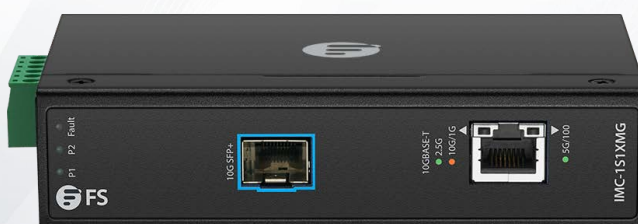


IMC-1S1XMG, Industrial 10Gigabit Ethernet Media Converter

INDUSTRIAL NETWORK POWER SOURCING SOLUTION



Overview

IMC-1S1XMG is a 10G Ethernet Media Converter, providing Ethernet extension with wide temperature ranging from -40°C to 75°C. It is equipped with one 100Mbps/1Gbps/2.5Gbps/5Gbps/10GBASE-T RJ45 copper interface and one 10GBASE-X SFP+ fiber optic interface delivered in an IP30 rugged but compact-sized case. The IMC-1S1XMG is ideal for wide applications from copper to fiber media conversion wherever 10Gigabit bandwidth is required in harsh environments such as transportation, factories, outdoors and places where extremely low or high temperatures can be experienced.

The SFP+ slot is compatible with 10GBASE-SR or 10GBASE-LR (Small Form Factor Pluggable) fiber-optic transceivers. The fiber optic uplink capability guarantees the throughput to all nodes hooked into the network and the 10 Gigabit Ethernet distance can be extended from 300 meters (multi-mode fiber cable) to 10/40/60 kilometers (single-mode fiber cable). It is well suited for applications within the factory data centers and distributions.

Benefits

- 1x 100M/1G/2.5G/5G/10G Auto-Negotiation RJ45 Port Supporting Auto-MDI/MDIX
- Maximum Transmission Distance Depends on the Inserted Modules
- Auto-negotiation of Half-Duplex / Full-Duplex Transfer Mode
- LEDs Indicate Ethernet and Fiber Link Status at a Glance
- Operating Temperatures from -40°C to +75°C
- Plug-and-play, Supports Wall mounting or DIN-rail Installation
- Complies with IEEE 802.3u, IEEE 802.3ab, IEEE 802.3bz, IEEE 802.3an, IEEE 802.3ae, etc.

Specification

	IMC-1S1XMG
Converter Type	Industrial Converter
Port Type	1x 100M/1G/2.5G/5G/10GBase-T Ethernet RJ45 1x 10GBase-X Ethernet SFP+
Cable Type (Copper)	Cat5/5e/6/6a/7
Cable Type (Fiber)	Multimode 50/125µm or 62.5/125µm Singlemode 9/125µm
Connector	Removable 6-pin terminal block Pin 1/2 for Power 1, Pin 3/4 for fault alarm, Pin 5/6 for Power 2
Alarm	Provides one relay output for power failure Alarm relay current carry ability: 1A @ DC 24V
LED	System: Fault Alert (Red), PWR (Green) 10000/5000/2500/1000/100 BASE-T RJ45 Interfaces: 1/10G LNK (Orange), 5000/2500/100M LNK (Green)
ESD Protection	6KV DC
Enclosure	IP30 type metal case
Installation	DIN-rail kit and wall-mount ear
Dimensions (HxWxD)	5.31"x1.26"x3.43" (135x32x87mm)
Weight	385g
Power Requirements	DC 12~48V or 24V AC
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex
Fabric	20Gbps
Address Table	9K entries, automatic source address learning and aging
Jumbo Frame	16K

Specification

	IMC-1S1XMG
	10G/5G/2.5G/1G/100M BASE-T: 10G – Cat 6a/7 5G – Cat 6/6a/7 1G/2.5G – Cat 5e/6/6a/7 100M – Cat 5/5e/6/6a/7 Cat 5/5e/6/6a/7 UTP cable (100 meters, max.) EIA/TIA-568 100-ohm STP (100 meters, max.) 10GBASE-LR/SR/BX : 50/125µm or 62.5/125µm multi-mode fiber optic cable, up to 300m 9/125µm single-mode fiber optic cable, up to 60km
Standards Compliance	IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3an 10GBASE-T IEEE 802.3ae 10Gbps Ethernet IEEE 802.3x full-duplex flow control
Stability Testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)
Operating Temperature	-40 to 75°C (-14 to 167°F)
Storage Temperature	-40 to 75°C (-14 to 167°F)
Operating Humidity	5 to 95%, non-condensing
Storage Humidity	5 to 95%, non-condensing