

IMC-2M2T, Industrial Ethernet Media Converter

INDUSTRIAL NETWORK POWER SOURCING SOLUTION



Overview

IMC-2M2T is an Industrial Media Converter, equipped with two 10/100/1000Base-T RJ45 copper ports and two 100/1000/2500Base-X SFP fiber optic interfaces and delivered in an IP30 rugged strong case. This converter is well suited for applications in deploying surveillance system, securing control and wireless service in harsh environments such as transportation, factories, outdoors and places where extremely low or high temperatures can be experienced.

The fiber optic uplink capability guarantees the throughput to all nodes hooked into the network and the Gigabit Ethernet distance can be extended from 300 meters (multi-mode fiber cable) to 20/40/80/120 kilometers (single-mode fiber cable), and also the Fast Ethernet distance can be extended from 2km (multi-mode fiber cable) to 20/40/60 kilometers (single-mode fiber cable). It is well suited for applications within the factory data centers and distributions.

Benefits

- 2x 10/100/1000Mbps 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 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, etc.

Specification

	IMC-2M2T
Converter Type	Industrial Converter
Port Type	2x 10/100/1000Base-T Ethernet RJ45 2x 100/1000/2500Base-X Ethernet SFP
Cable Type (Copper)	Cat5/5e/6
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 and Power: Green: DC Power 1 Green: DC Power 2 Red: Alarm Per Copper Port (Port-3~Port-4): Green: 1G LNK/ACT Amber:100 LNK/ACT SFP interface (Port-1~ Port-2) Green + Amber: 2.5G LNK/ACT Green: 1G LNK/ACT Amber:100 LNK/ACT
ESD Protection	6KV DC
DIP Switch	Fiber Mode ON: Fiber Redundancy OFF (default): Switch Mode
Power Requirements	DC 12~48V or AC 24V
Power Consumption / Dissipation	4.92 watts/16.9BTU
Dimensions (WxDxH)	5.31"x1.26"x3.43"(135x32x87mm)
Weight	419g
Enclosure	IP30 type metal case
Installation	DIN-rail kit and wall-mount ear

Specification

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Processing Scheme	Store-and-Forward
Fabric	14Gbps
Throughput (packet per second)	10.42Mpps@64bytes
Flow Control	Back pressure for half duplex. IEEE 802.3x pause frame for full duplex
Address Table	4K entries
Jumbo Frame	9216bytes
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX IEEE 802.3x Full-Duplex Flow Control IEEE 802.1p Class of Service
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
MTBF(hrs)	>300,000Hrs