

100Mbps Industrial Media Converter

IMC-100FX-XX



BENEFITS

- RJ-45 port support Auto MDI/MDI-X Function
- Auto Negotiation Speed, Half / Full Duplex
- Store-and-Forward Switching Architecture
- Built-in Link Lose Forwarding(LLF) & Link Fault Pass-Through(LFP) Technology
- Support Wide Operating Temperature (-40C~75C)

The Case Communications IMCW-XX-MM-DIN is a UTP to Multi-Mode or Single Fibre Converter, which is designed to extend the distance of Ethernet links. The Auto-MDI/MDIX avoids cabling changes and 4 Dipswitches adjust the forwarding mode, and the Link Loose Forwarding (LLF) feature. The Case Industrial Media Converter can be installed onto a DIN rail or Wall mounting for maximum flexibility



- **Power Supply** Wide-range Redundant Power Design (12v to 48vdc)
Power Polarity Reverse Protect
Overload Current Re-settable Fuse Present
- **Case / Installation** IP-30 Protection
DIN Rail and Wall Mount Design
- **Provides EFT protection 3000 VDC for power line**
- **Supports 6000 VDC Ethernet ESD protection**

Standards Compliance

Standards IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX/100BASE-FX
IEEE802.3x Flow Control and Back pressure

Hardware Specification

Switch Architecture	Store and Forward
Fibre Parameters	SC/ST (Multi-mode): 50/125um~62.5/125um SC (Single-mode): 9/125um Available distance: 2km (Multi-mode)/30km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode)
Link Lose forwarding	TX → Fiber: If TX port link down, the media converter will force Fiber port to link down Fiber →TX: If Fiber port link down, the media converter will force TX port to link down

FACT SHEET

100Mbps Industrial Media Converter

IMC-100FX-XX



Dip Switches

- DIP Switch 1: OFF: Disables Port /Power Alarm
ON: Enables Port /Power Alarm
- DIP Switch 2: OFF: Disables LLF (Link Lose Forwarding) & LFP (Link Fault Pass-Through)
ON: Enables LLF (Link Lose Forwarding) & LFP (Link Fault Pass-Through)
- DIP Switch 3: OFF: 100Base-FX Full-mode
ON: 100Base-FX Half-mode
- DIP Switch 4: OFF: Switching mode
ON: Media mode (100TX to 100FX)

Connectors	Fibre: SC / ST (Multi-mode, 2km), SC (Single-mode, 30km) RJ-45 Socket: CAT-3/5 (10/100Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support
LED's	Per unit: Power 1 (Green), Power 2 (Green), Fault(Red) TX: Link/Active (Green), 100M(Yellow) Fiber: Link/Active (Green), Full duplex/Collision (Yellow)
Reserve polarity protection	Present
Overload current protection	DC 12~48V, Redundant power with polarity reverse protect function and removable terminal block VAC 18~36V.
Power Consumption	2.74 Watts
Operating Humidity	5%~95% (Non-condensing)
Operating Temperature	Standard: -10°C ~ 60°C; Wide Operating Temperature (-40°C ~ 75°C)
Storage Temperature	-40°C ~ 85°C
Case Dimension	Metal case. IP-30, 30mm (W) x 95mm (D) x 140mm (H)
Installation	DIN Rail and Wall Mount Design
EMI	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4
Safety	UL, cUL, CE/EN60950-1, Class 1 / Division 2
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)

Ordering Information

Part Number	Product Name	Description
8350-025	IMCW-100-SC-MM2	10/100TX to 100FX (SC, MM 2km) w/ Wide Operating Temperature (-40°C~75°C) Industrial Switch Converter
8350-026	IMCW-100-SC-SM30	10/100TX to 100FX (SC, SM 30km) w/ Wide Operating Temperature (-40°C~75°C) Industrial Switch Converter
8350-029	IMCW-100-ST-MM2	10/100TX to 100FX (ST, MM 2km) Industrial Switch Converter Wide Operating Temperature (-40°C~75°C) Industrial Switch Converter

FACT SHEET