

# Optolinx IMC-100A

Industrial 10/100BaseTX to 100BaseFX Industrial Media Converter

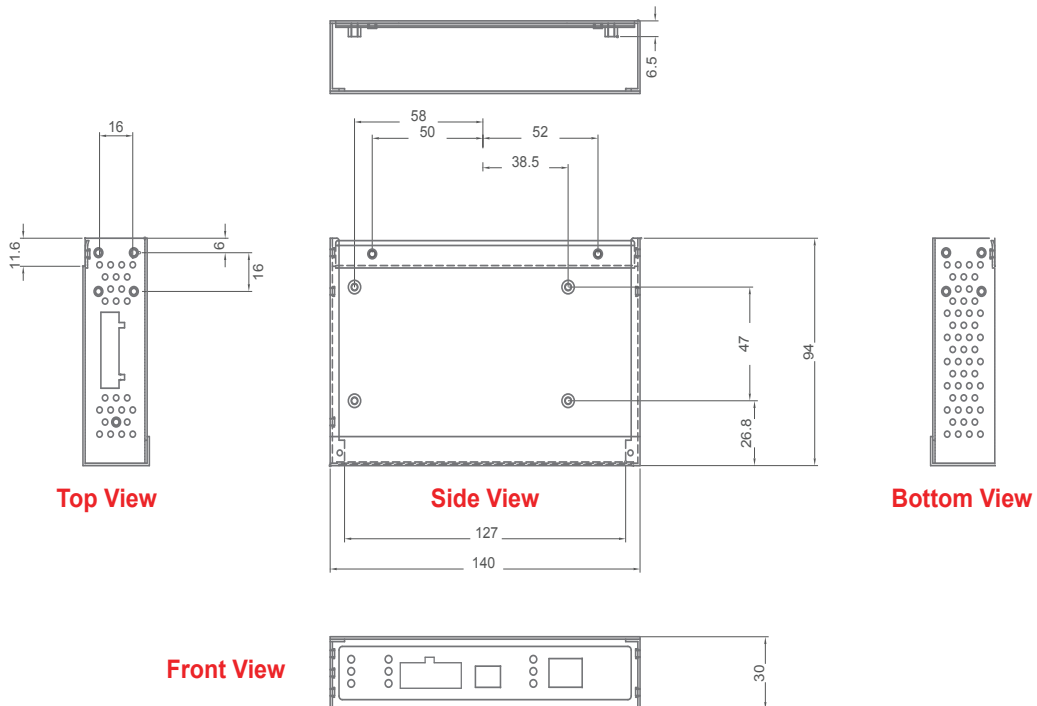


## Features

- ▶ UTP to Fiber Media Converter
- ▶ RJ-45 Port Support Auto MDI/MDI-X Function
- ▶ Auto Negotiation Speed, Half/Full Duplex
- ▶ Store-and-Forward Switching Architecture
- ▶ Built-in Link Loss Forwarding (LLF) & Link-Fault-Pass-Through (LFP)
- ▶ Wide-range Redundant Power Design
- ▶ Power Polarity Reverse Protection
- ▶ Overload Current Protection
- ▶ DIN-Rail or Wall Mountable
- ▶ UL Class I, Division 2 Certified
- ▶ IP30 Protection
- ▶ 5-Year Warranty



## Specifications



► **Specifications**

**Standard**

IEEE 802.3 10BaseT Ethernet  
IEEE 802.3u 100BaseTX/100BaseFX  
IEEE 802.3x Flow Control and Back-Pressure

**Connector**

Fiber: SC/ST (Multi-Mode), SC/ST (Single-Mode, 30Km)  
RJ-45 Socket: CAT-3/5 (10/100Mbps) Twisted Pair Cable  
Auto MDI/MDI-X & Auto-Negotiation Function Support

**Switch Architecture**

Store and Forward

**Fiber Parameters**

Fiber Core: Multi-Mode (62.5/125um ~ 50/125um)  
Single-Mode (9/125um ~ 10/125um)  
Wavelength: 1310nm  
Fiber Distance: Multi-Mode Fiber 2Km  
Single-Mode Fiber 30Km

**Link Loss Forward**

TX → Fiber: If TX port link down, will force Fiber port to link down  
Fiber → TX: If Fiber port link down, will force TX port to link down

**DIP Switch**

DIP 1: ON = Enables Port/Power Alarm  
OFF = Disables Port/Power Alarm  
DIP 2: ON = Enables Link Loss Forward & Link-Fault-Pass-Through  
OFF = Disables Link Loss Forward & Link-Fault-Pass-Through  
DIP 3: ON = 100BaseFX Half-Mode  
OFF = 100BaseFX Full-Mode  
DIP 4: ON = 100BaseTX Full-Duplex Mode  
OFF = Auto-Negotiation

**LED**

Unit: Power, Power 1, Power 2 (Green), Fault (Red)  
TX: Link/Act (Green), 100M (Yellow)  
Fiber: Link/Act (Green), Full Duplex/Collision (Yellow)

**Power**

DC 12 ~ 48V  
Redundant power with reverse polarity protection and removable terminal block

**Power Consumption**

2.74 Watts

**Reserve Polarity/Overload Current Protection**

Present

**Mechanical**

Casing: IP30 Metal Case  
Dimension (W x H x D): 30 x 140 x 95 mm (1.18 x 5.51 x 3.74 in.)  
Installation: DIN-Rail/Wall Mountable

**Operation Temperature**

Standard: -10° C to 70° C (14° F to 158° F)  
Wide Operating Temperature: -40° C to 80° C (-40° F to 176° F)

**Operation Humidity**

5% to 95% (Non-condensing)

**Storage Temperature**

-40° C to 85° C

**EMI**

FCC Class A  
CE EN6100-4-2/EN6100-4-3/EN6100-4-4/EN6100-4-5/EN6100-4-6/  
EN6100-4-8/EN6100-4-11/EN6100-4-12/EN6100-6-2/EN6100-6-4

**Safety**

UL/cUL Class I, Division 2  
CE EN60950-1

**Stability Testing**

Shock: IEC60068-2-27  
Free Fall: IEC60068-2-32  
Vibration: IEC60068-2-6

**Warranty**

5-Year Warranty

► **Ordering Information**

**IMC-100A-M**

Industrial Media Converter, Multi-Mode Fiber, SC, 2 Km

**IMC-100A-S3**

Industrial Media Converter, Single-Mode Fiber, SC, 30 Km

**IMC-100A-M-T**

Industrial Media Converter, Multi-Mode Fiber, SC, 2 Km, Wide Operating Temperature

**IMC-100A-S3-T**

Industrial Media Converter, Single-Mode Fiber, SC, 30 Km, Wide Operating Temperature

**IMC-100A-ST-M**

Industrial Media Converter, Multi-Mode Fiber, ST, 2 Km

**IMC-100A-ST-S3**

Industrial Media Converter, Single-Mode Fiber, ST, 30 Km

**IMC-100A-ST-M-T**

Industrial Media Converter, Multi-Mode Fiber, ST, 2 Km, Wide Operating Temperature

**IMC-100A-ST-S3-T**

Industrial Media Converter, Single-Mode Fiber, ST, 30 Km, Wide Operating Temperature

**Optional Accessories**

**DR-4524**

45W 24VDC Industrial DIN Rail Power Supply

**DR-75-24**

75W 24VDC Industrial DIN Rail Power Supply

**DR-120-24**

120W 24VDC Industrial DIN Rail Power Supply

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