

# Optolinx IMC-100A

Industrial 10/100BaseTX to 100BaseFX Industrial Media Converter

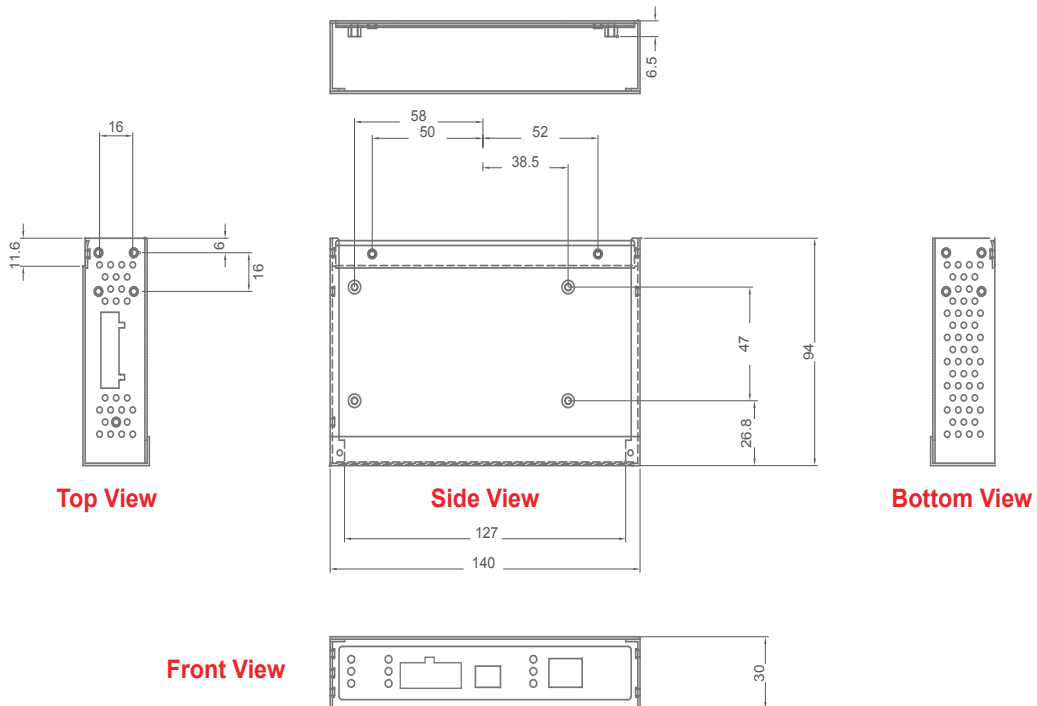


## Features

- ▶ 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



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### 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

### IMC-100A-S3

### IMC-100A-M-T

### IMC-100A-S3-T

### IMC-100A-ST-M

### IMC-100A-ST-S3

### IMC-100A-ST-M-T

### IMC-100A-ST-S3-T

Industrial Media Converter, Multi-Mode Fiber, SC, 2 Km  
Industrial Media Converter, Single-Mode Fiber, SC, 30 Km  
Industrial Media Converter, Multi-Mode Fiber, SC, 2 Km, Wide Operating Temperature  
Industrial Media Converter, Single-Mode Fiber, SC, 30 Km, Wide Operating Temperature  
Industrial Media Converter, Multi-Mode Fiber, ST, 2 Km  
Industrial Media Converter, Single-Mode Fiber, ST, 30 Km  
Industrial Media Converter, Multi-Mode Fiber, ST, 2 Km, Wide Operating Temperature  
Industrial Media Converter, Single-Mode Fiber, ST, 30 Km, Wide Operating Temperature

### Optional Accessories

#### DR-4524

#### DR-75-24

#### DR-120-24

45W 24VDC Industrial DIN Rail Power Supply  
75W 24VDC Industrial DIN Rail Power Supply  
120W 24VDC Industrial DIN Rail Power Supply

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