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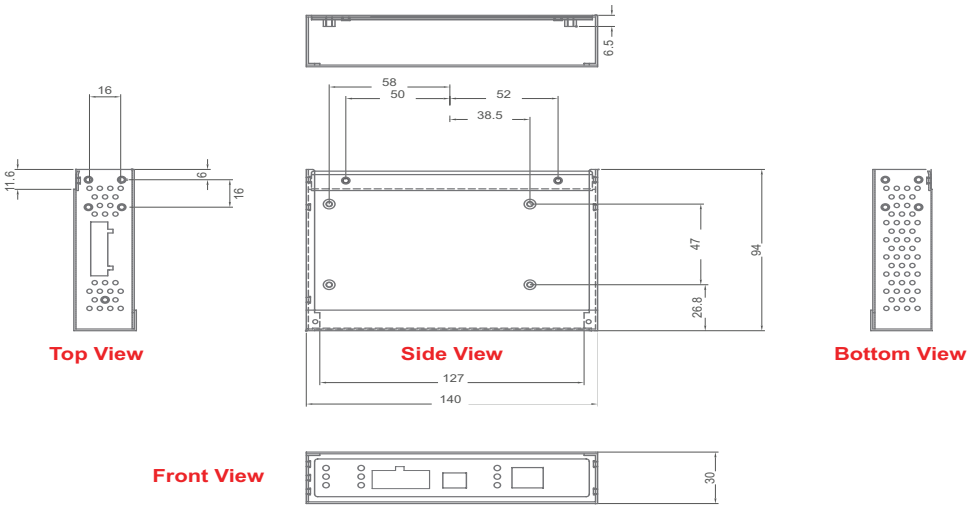
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Find the *Acromag IMC-100A-M-T* at our website: ***Click HERE***

# Industrial Media Converter

## IMC-100A 10/100BaseTX to 100BaseFX Industrial Media Converter




UTP to Fiber Media Converter ◆ RJ45 Port Supports Auto MDI/MDI-X Function

## Description

The IMC-100A is a cost-effective solution for converting between 10/100Base-TX and 100Base-FX cabling. It allows you to extend the cabling distance of your 100Base-FX network up to 2 kilometers for multi-mode fiber or 30 kilometers for single-mode fiber. The Fast Fiber Converter module gives you the option to choose from the most popular fiber cabling connectors: SC multi-mode and single-mode connector.

### Fast Fiber Converters Module

The Industrial 10/100Base TX to 100BaseFX Media Converter provides you with one Fiber connector for your fiber optic cable and one Ethernet RJ45 port (Auto MDI/MDIX) for your 100Base-TX copper cable connection. There are four DIP-switches to set the operation mode for UTP, Fiber ports and link loss forwarding function.

### Dual Power Input

To reduce the risk of power failure, the Media Converter provides +12 to 48V DC dual power inputs. If there is power failure, the Industrial 10/100BaseTX to 100BaseFX Media Converter will automatically switch to the secondary power input.

### Flexible Mounting

The IMC-100A Converter is extremely compact and can be mounted on a DIN-rail or a panel, so it is suitable for any space-constrained environment.

### Advanced Protection

The power line of the IMC-100A Media Converter supports up to 3,000V DC EFT protection, which secure equipment against unregulated voltage and make systems safer and more reliable. Meanwhile, 6,000V DC ESD protections for Ethernet ports make the IMC-100A Media Converter more suitable for harsh environments.

### Wide Operating Temperature

The operating temperature of the IMC-100A Media Converter is between -40 to 75°C. With such a wide range, you can use the Industrial 10/100Base TX to 100BaseFX Media Converter in some of the harshest industrial environments that exist.

### Easy Troubleshooting

LED indicators make troubleshooting quick and easy. The 10/100 Base-TX port has 2 LEDs that display the link status, transmission speed and collision status. Also the three power indicators P1, P2 and Fault help you diagnose immediately.

## Key Features & Benefits

- UTP to Fiber Media Converter
- RJ45 Port Supports 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

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# Industrial Media Converter

## IMC-100A 10/100BaseTX to 100BaseFX Industrial Media Converter

## Performance Specifications

### Technology

Standards
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)
RJ45 Socket: CAT-3/5 (10/100Mbps) Twisted Pair Cable
Auto MDI/MDI-X & Auto-Negotiation Function Support

### Switch Characteristics

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

Power
DC 12 to 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

Dimensions
30 x 140 x 95 mm (W*H*D):
(1.18 x 5.51 x 3.74 inches)

Installation
DIN-Rail/Wall Mountable

### Environmental

Operation Temperature
-40° to 80°C (-40° F to 176° F)

Operation Humidity
5% to 95% (Non-Condensing)

Storage Temperature
-40° to 85°C

### Regulatory

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

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

Shock
IEC60068-2-27

Free Fall
IEC60068-2-32

Vibration
IEC60068-2-6

## Ordering Information

### Models

IMC-100A-M-T
10/100TX To 100FX Harden Media Converter, Multi-Mode 2KM, -40 to 80°C

IMC-100A-S3-T
10/100TX To 100FX Harden Media Converter, Single Mode 30KM, -40 to 80°C

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