

IMC-100A-XX Series

10/100TX to 100FX Industrial Media Converter



Features

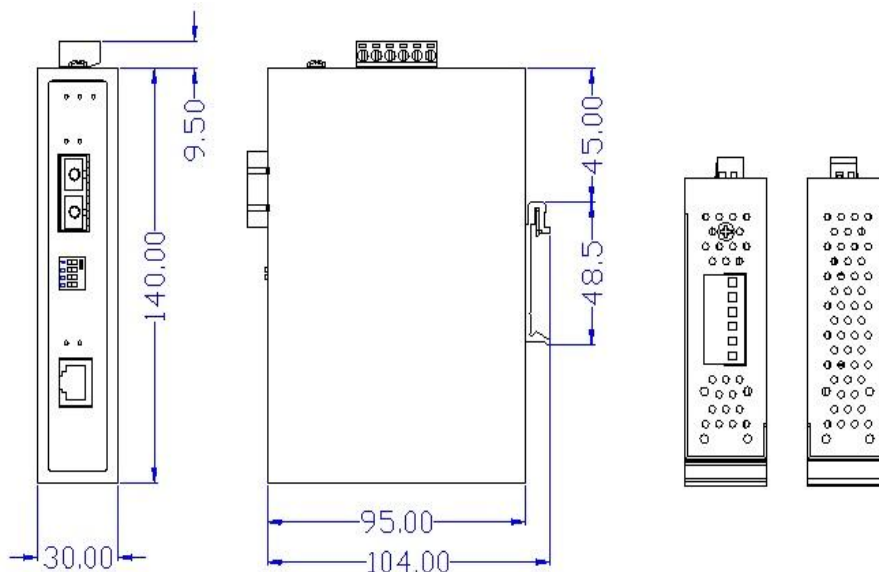
- ▶ UTP to Fiber Media Converter
- ▶ Store-and-Forward Switching Architecture
- ▶ RJ45 Port Support Auto MDI/MDI-X Function
- ▶ Auto Negotiation Speed, Half/Full Duplex
- ▶ Reverse Polarity Power Protection
- ▶ Redundant Power Input Design: 12~36VDC
- ▶ Built-in 1 Relay Output for Power Failure Warning
- ▶ IP30 Rugged Metal Case Design
- ▶ DIN-Rail and Wall Mount Support Included
- ▶ Operating Temperature Range: STD: -10° to 70°C, EOT: -40° to 80°C
- ▶ UL Class 1, Division 2 Certified
- ▶ 5-Year Warranty

INTRODUCTION

Antaira Technologies' IMC-100A series is an industrial grade unmanaged Ethernet media converter featuring a simple plug-and-play operation to quickly convert between Ethernet and fiber optics. The IMC-100A series supports fast Ethernet speeds of 100Mbps, featuring 1*10/100Tx Ethernet port and 1*100Fx fiber port. This unit is an ideal solution for applications looking to convert between an RJ45 Ethernet connection and a fiber connection.

IMC-100A series is IP30 rated and DIN-rail mountable. This product series supports a low voltage power input range of 12~48VDC. Also, there are two operating temperature models for either a standard temperature range (STD: -10°C to 70°C) or an extended temperature range (EOT: -40°C to 80°C). It also provides Ethernet and fiber optic connectivity for outdoor or harsh industrial environment applications, such as, security surveillance, ITS-traffic monitoring systems, oil/gas and mining, facility management for power/utility, water wastewater treatment plants, and lastly, automated production lines in factory automation.

DIMENSIONS



SPECIFICATIONS

| Technology | | Mechanical Characteristics | |
|------------------------------------|--|----------------------------------|--|
| Standards | IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX/100BaseFX IEEE 802.3x Flow Control and Back-Pressure | Housing | Metal, IP30 rated |
| Processing Type | Store-and-Forward | Dimensions | 30 x 140 x 95 mm |
| Protocol | CSMA/CD | Weight | Unit: 0.95 lbs Shipping: 1.4 lbs |
| Flow Control | IEEE 802.3x back pressure flow control | Mounting | DIN-Rail, Wall-Mount (optional) |
| Switch Properties | | Environmental Limits | |
| Switch Architecture | Back-Plane (Switching Fabric): 10.0Gbps | Operating Temperature | STD: -10° to 70°C EOT: -40° to 80°C |
| Transfer Rate | 14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet | Storage Temperature | -40°~85°C |
| Interface | | Ambient Relative Humidity | 5 to 95%, (Non-condensing) |
| Ethernet Port | 1*10/100Tx auto negotiation speed, Full/Half duplex mode, and auto MDI connection | Regulatory Approvals | |
| Fiber Parameters | Fiber Core: Multi-Mode (62.5/125um ~ 50/125um) | EMI | FCC Class A |
| | Single-Mode (9/125um ~ 10/125um) | EMS | EN6100-4-2,3,4,5,6,8,11,12 EN6100-6-2,4 |
| | Wavelength: 1310nm | Free Fall | IEC60068-2-32 |
| | Fiber Distance: Multi-Mode Fiber 2Km Single-Mode Fiber 30Km | Shock | IEC60068-2-27 |
| | WDM: Mode A Tx1310nm Rx1550nm WDM: Mode B Tx1550nm Rx1310nm | Vibration | IEC60068-2-6 |
| Network Cable | 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable; | Certifications | FCC, CE, UL Class 1 Division 2 |
| | 100Base-TX: 2-pair UTP/STP Cat. 5 cable. | Warranty | 5 Years |
| | EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m) | | |
| Power Requirement | | | |
| Input Voltage | 12~48VDC Redundant Input | | |
| Power Connection | 1 removable 6-contact terminal block | | |
| Reverse Polarity Protection | Present | | |
| Overload Current Protection | Present | | |
| Power Consumption | 2.74 Watts | | |

ORDERING INFO

| IMC-100A-M | 10/100TX to 10/100FX Industrial Media Converter, Multi-Mode 2km, SC Connector |
|-------------------------|--|
| IMC-100A-M-T | 10/100TX to 10/100FX Industrial Media Converter, Multi-Mode 2km, SC Connector, EOT: -40°~80°C |
| IMC-100A-S3 | 10/100TX to 10/100FX Industrial Media Converter, Single Mode 30km, SC Connector |
| IMC-100A-S3-T | 10/100TX to 10/100FX Industrial Media Converter, Single Mode 30km, SC Connector, EOT: -40°~80°C |
| IMC-100A-ST-M | 10/100TX to 10/100FX Industrial Media Converter, Multi-Mode 2km, ST Connector |
| IMC-100A-ST-M-T | 10/100TX to 10/100FX Industrial Media Converter, Multi-Mode 2km, ST Connector, EOT: -40°~80°C |
| IMC-100A-ST-S3 | 10/100TX to 10/100FX Industrial Media Converter, Single Mode 30km |
| IMC-100A-ST-S3-T | 10/100TX to 10/100FX Industrial Media Converter, Single Mode 30km, EOT: -40°~80°C |
| IMC-100A-WA-S2 | 10/100TX to 10/100FX Industrial Media Converter, Single Fiber (WDM-A), Single Mode 20km, TX1310nm - RX1550nm |
| IMC-100A-WB-S2 | 10/100TX to 10/100FX Industrial Media Converter, Single Fiber (WDM-B), Single Mode 20km, TX1550nm - RX1310nm |
| Optional Accessories | |
| DR-45-24 | 45 Watt Series Industrial Single Output DIN-Rail Power Supply - 24 VDC / 2.0 Amps |
| DR-75-24 | 75 Watt Industrial Single Output DIN-Rail Power Supply - 24 VDC / 3.2 Amps |
| DR-120-24 | 120 Watt Industrial Single Output DIN-Rail Power Supply - 24 VDC / 5.0 Amps |

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