

# IMC-100A-XX Series

10/100TX to 100FX Industrial Media Converter



## Features

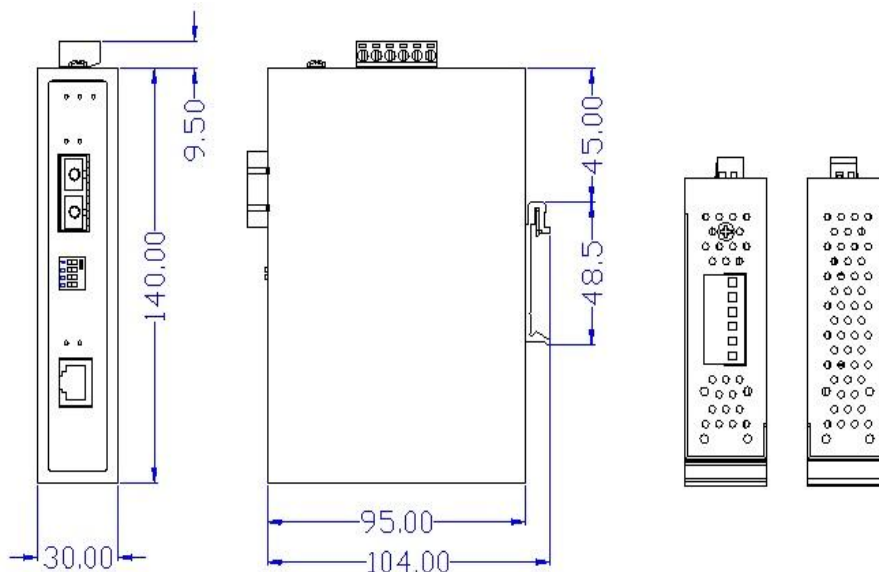
- ▶ UTP to Fiber Media Converter
- ▶ Store-and-Forward Switching Architecture
- ▶ RJ45 Port Support Auto MDI/MDI-X Function
- ▶ Auto Negotiation Speed, Half/Full Duplex
- ▶ Reverse Polarity Power Protection
- ▶ Redundant Power Input Design: 12~36VDC
- ▶ Built-in 1 Relay Output for Power Failure Warning
- ▶ 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	
<b>Standards</b>	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX/100BaseFX IEEE 802.3x Flow Control and Back-Pressure	<b>Housing</b>	Metal, IP30 rated
<b>Processing Type</b>	Store-and-Forward	<b>Dimensions</b>	30 x 140 x 95 mm
<b>Protocol</b>	CSMA/CD	<b>Weight</b>	Unit: 0.95 lbs Shipping: 1.4 lbs
<b>Flow Control</b>	IEEE 802.3x back pressure flow control	<b>Mounting</b>	DIN-Rail, Wall-Mount (optional)
Switch Properties		Environmental Limits	
<b>Switch Architecture</b>	Back-Plane (Switching Fabric): 10.0Gbps	<b>Operating Temperature</b>	STD: -10° to 70°C EOT: -40° to 80°C
<b>Transfer Rate</b>	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet	<b>Storage Temperature</b>	-40°~85°C
Interface		<b>Ambient Relative Humidity</b>	5 to 95%, (Non-condensing)
<b>Ethernet Port</b>	1*10/100Tx auto negotiation speed, Full/Half duplex mode, and auto MDI connection	Regulatory Approvals	
<b>Fiber Parameters</b>	Fiber Core: Multi-Mode (62.5/125um ~ 50/125um)	<b>EMI</b>	FCC Class A
	Single-Mode (9/125um ~ 10/125um)	<b>EMS</b>	EN6100-4-2,3,4,5,6,8,11,12 EN6100-6-2,4
	Wavelength: 1310nm	<b>Free Fall</b>	IEC60068-2-32
	Fiber Distance: Multi-Mode Fiber 2Km Single-Mode Fiber 30Km	<b>Shock</b>	IEC60068-2-27
	WDM: Mode A Tx1310nm Rx1550nm WDM: Mode B Tx1550nm Rx1310nm	<b>Vibration</b>	IEC60068-2-6
<b>Network Cable</b>	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable;	<b>Certifications</b>	FCC, CE, UL Class 1 Division 2
	100Base-TX: 2-pair UTP/STP Cat. 5 cable.	<b>Warranty</b>	5 Years
	EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)		
Power Requirement			
<b>Input Voltage</b>	12~48VDC Redundant Input		
<b>Power Connection</b>	1 removable 6-contact terminal block		
<b>Reverse Polarity Protection</b>	Present		
<b>Overload Current Protection</b>	Present		
<b>Power Consumption</b>	2.74 Watts		

## ORDERING INFO

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

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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