



AVCOMM®

4002MC

Datasheet

Aiming to create better and safer working environments and life experiences through the products we deliver.



AVCOMM Technologies, Inc

www.avcomm.us

Email: info@avcomm.us

Phone: (713) 933-4534

Address: 333 West Loop North, Suite 460
Houston, TX 77024
United States

Reliable Plug and Play Industrial Media Converter Converter for Automation and Electrical OEM

4002MC

Industrial Unmanaged Media Converter

AVCOMM 4002MC is 2-port plug and play industrial media converter with reverse polarity protection of AC or DC input. It is highly scalable and can transmit data over long distances through fiber-optic ports. It has wide operation temperature range, high anti-EMI capability to ensure stable work in harsh industrial environments and supports DIN Rail-mounted to facilitate in various industrial network applications such as industrial automation, intelligent transportation, video surveillance, and electrical OEMs..



Features & Benefits

Industrial Media Converter

- One (1) 10/100/1000BaseT(X) RJ-45 ports and one (1) 1000BaseFX port (SC ST FC optional)
- 1K MAC address table
- Store and forwarding with non-blocking technology

IEEE 802.3u EEE Power Management

- Ultra power consumption efficiency, 2.4 W fully loaded
- Energy Efficient Ethernet for low power requirement
- Idle power saving mode for energy efficiency

Rugged Mechanical Design

- Robust design protects from mechanical deformation
- IP40 industrial rating to withstand harsh environments
- Wide operating temperature range -40°C ~ +85°C

Power protection

- Provide overload protection
- Provide reverse connection protection
- Provide multiple power input options, AC or DC or HV

Ordering Information

Model Name	Description
4002MC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX, DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4002MC-SC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, SC style connector), DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4002MC-ST	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, ST style connector), DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C

4002MCE-SC-15	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 15Km) , DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4002MCE-ST-15	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4002MCE-SC-40	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 40Km) , DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4002MCE-ST-40	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 40Km) , DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4002MCE-SC-80	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 80Km) , DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4002MCE-ST-80	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 80Km) , DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4002MC-SC-AC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4002MC-ST-AC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4002MCE-SC-15-AC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 15Km) , DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4002MCE-ST-15-AC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4002MCE-SC-40-AC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 40Km) , DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4002MCE-ST-40-AC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 40Km) , DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4002MCE-SC-80-AC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 80Km) , DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4002MCE-ST-80-AC	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 80Km) , DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4002MC-SC-HV	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C
4002MC-ST-HV	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C
4002MCE-SC-15-HV	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 15Km) , DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C

4002MCE-ST-15-HV	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C
4002MCE-SC-40-HV	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 40Km) , DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C
4002MCE-ST-40-HV	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 40Km) , DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C
4002MCE-SC-80-HV	2-Port Industrial Media Converter, 1 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 80Km) , DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C
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 Specifications

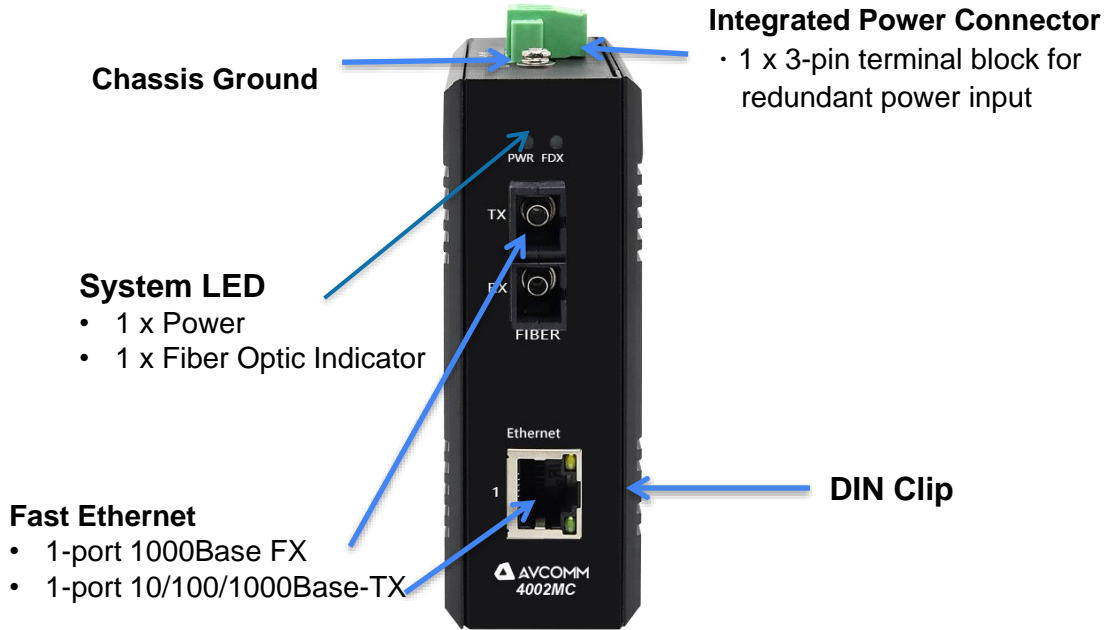
Technology	
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x
Performance	
Switch Technology	Store and Forwarding Technology with non-blocking
Number of MAC Address	1K
Packet Buffer Memory	1 MB
Backplane bandwidth	12 Gbps
Forwarding rate	1488095pps
Interface	
Ethernet Port	1 x 10/100/1000BaseT(x)RJ-45 , 1 x 1000Base FX, auto-MDI/MDI-X
System LED	1 x Power: Green On ; 1 x Fiber Optic Indicator: Green On
Ethernet Port LED	Link (Green On), Active (Green Blinking)
Power Input	3-Pin Removable Terminal Connector
Power Requirement	
Input Voltage	12/24/48VDC (10~50VDC) 110/220VAC(88~264VAC) or 110/220VDC(88~264VDC) , Redundant
Reverse Polarity Protect	Yes
Power Consumption	100mA@24V 5 W
Mechanical	
Enclosure Material	Metal
Dimension	35 mm x 100 mm x 80 mm (W x H x D) without DIN Rail Clip for DC version 47.2 mm x 100 mm x 85 mm (W x H x D) without DIN Rail Clip for AC & HVDC version
Ingress Protection	IP40
Weight	450g for DC version 560g for AC & HVDC version
Installation method	DIN Rail
Environmental	
Operating Temperature & Humidity	-40°C ~ +85°C , 0%~95% Non- Condensing
Storage Temperature	-40°C ~ +85°C
MTBF	>2,000,000 hours
Warranty	5 years
Standard	
EMI	FCC Part 15 Subpart B class A, EN55022 class A
EMS	IEC(EN)61000-4-2(ESD) IEC(EN)61000-4-3(RS) IEC(EN)61000-4-4(EFT) IEC(EN)61000-4-5(Surge) IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock)



Specifications

100Base FX		
Multi Mode	AVC-SFP-FX-SX (550m)	Wavelength: 850 nm
	AVC-SFP-FX-S (2km)	Wavelength: 1310 nm
Single Mode	AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm
1000Base FX		
Multi Mode	AVC-SFP-SX (550m)	Wavelength: 850 nm
	AVC-SFP-LX-S (2km)	Wavelength: 1310 nm
Single Mode	AVC-SFP-LX-10 (10km)	Wavelength: 1310 nm

Function interface



Installation dimensions

