402MC Datasheet

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

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

402MC

Industrial Media Converter

AVCOMM 402MC is a 2-port plug and play industrial media converter with reverse polarity protection of AC or DC input for automation and electrical OEM purpose. It has wide operation temperature range, high EMC performance to ensure stable work in harsh industrial environments and supports DIN Rail-mounted to facilitate in various industrial network applications. AVCOMM 402MC ensures reliable data transmission and is suitable for industrial applications such as industrial automation, intelligent transportation, video surveillance, and electrical OEMs.

FC CE cULus IEC61000-6-2 IEC61000-6-4

📋 Features & Benefits

Industrial Media Converter

· One(1) 10/100BaseT(X) RJ-45 port and one(1) 100BaseFX port (SC ST FC optional)
· 1K MAC address table

IEEE 802.3u EEE Power Management

· Ultra power consumption efficiency, 2.4W 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

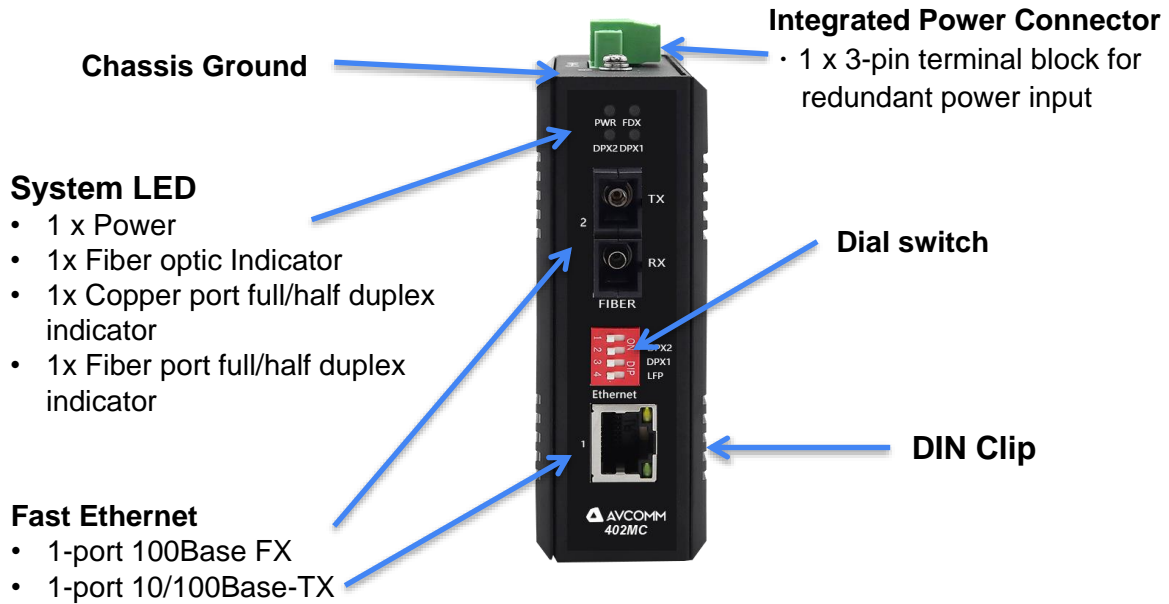| Model Name	Description
402MC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
402MC-SC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, SC style connector) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
402MC-ST	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, ST style connector) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C

🛒 Ordering Information

Model Name	Description
402MCE-SC-15	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 15Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
402MCE-ST-15	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
402MCE-SC-40	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 40Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
402MCE-ST-40	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 40Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
402MCE-SC-100	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 100Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
402MCE-ST-100	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 100Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
402MC-SC-AC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, SC style connector) , DIN-Rail, Single Power Input 90-264VAC, -40°C to +85°C
402MC-ST-AC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, ST style connector) , DIN-Rail, Single Power Input 90-264VAC, -40°C to +85°C
402MCE-SC-15-AC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 15Km) , DIN-Rail, Single Power Input 90-264VAC, -40°C to +85°C
402MCE-ST-15-AC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Single Power Input 90-264VAC, -40°C to +85°C
402MCE-SC-40-AC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 40Km) , DIN-Rail, Single Power Input 90-264VAC, -40°C to +85°C
402MCE-ST-40-AC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 40Km) , DIN-Rail, Single Power Input 90-264VAC, -40°C to +85°C
402MCE-SC-100-AC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 100Km) , DIN-Rail, Single Power Input 90-264VAC, -40°C to +85°C
402MC-ST-100-AC	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 100Km) , DIN-Rail, Single Power Input 90-264VAC, -40°C to +85°C
402MC-SC-HV	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, SC style connector) , DIN-Rail, Single Power Input 90-264VDC, -40°C to +85°C
402MC-ST-HV	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, ST style connector) , DIN-Rail, Single Power Input 90-264VDC, -40°C to +85°C
402MC-SC-15-HV	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 15Km) , DIN-Rail, Single Power Input 90-264VDC, -40°C to +85°C
402MCE-ST-15-HV	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Single Power Input 90-264VDC, -40°C to +85°C
402MCE-SC-40-HV	2-Port Industrial Media Converter, 1 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 40Km) , DIN-Rail, Single Power Input 90-264VDC, -40°C to +85°C
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Specifications

Technology

Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX and 100Base FX Fast Ethernet

Performance

Switch Technology	Direct Forwarding Technology
Number of MAC Address	1K
Packet Buffer Memory	288 KB
Maximum frame length	9K
Forwarding rate	148810pps

Interface

Ethernet Port	1 x 10/100BasetT(x)RJ-45 , 1 x 100Base FX, Supports full-duplex and half-duplex, auto Negotiation
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 Idle: 3.2 W@220VAC Full load: 4.3 W@220VAC

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×100 mm×85 mm (W x H x D) without DIN Rail Clip for AC & HVDC version
Ingress Protection	IP40
Weight	400g for DC version 560g for AC & HVDC version
Installation method	DIN Rail-mounted for DC version DIN Rail-mounted/wall-mounted for AC & HVDC version

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)

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

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Function interface

Chassis Ground

Integrated Power Connector
· 1 x 3-pin terminal block for redundant power input

System LED
- 1 x Power
- 1x Fiber optic Indicator
- 1x Copper port full/half duplex indicator
- 1x Fiber port full/half duplex indicator

Dial switch

DIN Clip

Fast Ethernet
- 1-port 100Base FX
- 1-port 10/100Base-TX

Installation dimensions

Unit: inch ±0.040 / [mm] ±1.00

3.46 [88.00mm]
3.15 [80.00mm]
3.94 [100.00mm]
2.20 [55.85mm]

Left side view

1.38 [35.00mm]
0.43 [11.00mm]
0.60 [15.21mm]
4.33 [110.00mm]

Front view

1.03 [26.25mm]
1.00 [25.50mm]
0.39 [10.00mm]

Right side view

0.59 [15.00mm]
0.67 [17.00mm]

Rear view

1.06 [27.00mm]
2.05 [52.00mm]

Rail piece

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