



# 402MC

# Datasheet

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



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## Reliable Plug and Play Industrial Media Converter 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.



#### 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

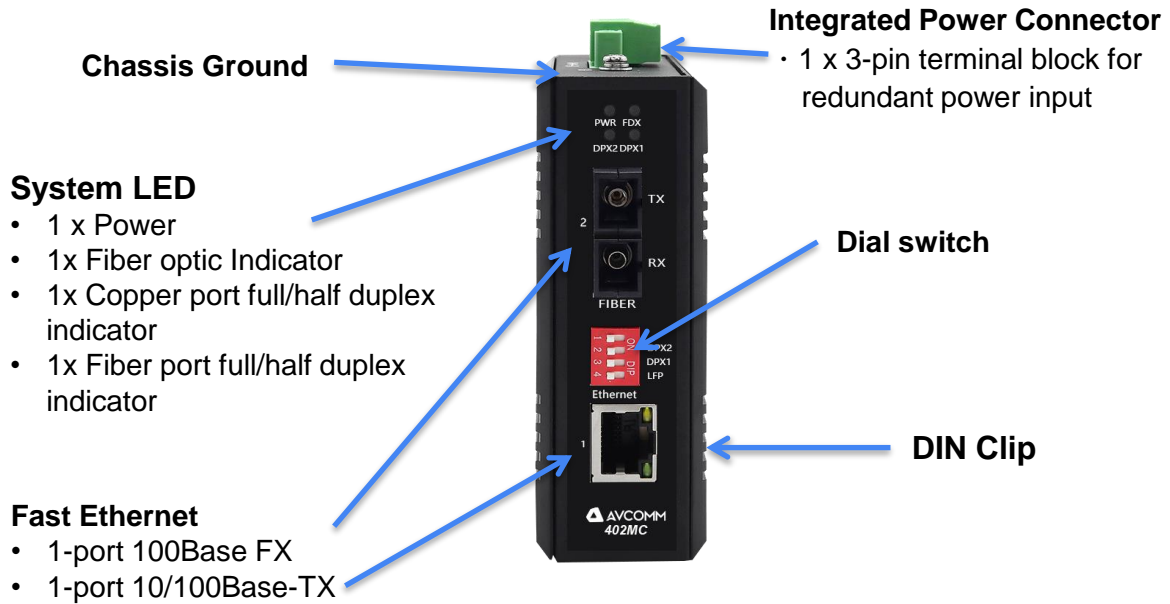
 **Ordering Information**

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

 Specifications

<b>Technology</b>	
<b>Standard</b>	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX and 100Base FX Fast Ethernet
<b>Performance</b>	
<b>Switch Technology</b>	Direct Forwarding Technology
<b>Number of MAC Address</b>	1K
<b>Packet Buffer Memory</b>	288 KB
<b>Maximum frame length</b>	9K
<b>Forwarding rate</b>	148810pps
<b>Interface</b>	
<b>Ethernet Port</b>	1 x 10/100BaseT(x)RJ-45 , 1 x 100Base FX, Supports full-duplex and half-duplex, auto Negotiation
<b>System LED</b>	1 x Power: Green On ; 1 x Fiber Optic Indicator: Green On
<b>Ethernet Port LED</b>	Link (Green On), Active (Green Blinking)
<b>Power Input</b>	3-Pin Removable Terminal Connector
<b>Power Requirement</b>	
<b>Input Voltage</b>	12/24/48VDC (10~50VDC) 110/220VAC(88~264VAC) or 110/220VDC(88~264VDC) , Redundant
<b>Reverse Polarity Protect</b>	Yes
<b>Power Consumption</b>	100mA@24V Idle: 3.2 W@220VAC Full load: 4.3 W@220VAC
<b>Mechanical</b>	
<b>Enclosure Material</b>	Metal
<b>Dimension</b>	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
<b>Ingress Protection</b>	IP40
<b>Weight</b>	400g for DC version 560g for AC & HVDC version
<b>Installation method</b>	DIN Rail-mounted for DC version DIN Rail-mounted/wall-mounted for AC & HVDC version
<b>Environmental</b>	
<b>Operating Temperature &amp; Humidity</b>	-40°C~ +85°C , 0%~95% Non- Condensing
<b>Storage Temperature</b>	-40°C~ +85°C
<b>MTBF</b>	>2,000,000 hours
<b>Warranty</b>	5 years
<b>Standard</b>	
<b>EMI</b>	FCC Part 15 Subpart B class A, EN55022 class A
<b>EMS</b>	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)

## Function interface



## Installation dimensions

