

4003GX 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 Ethernet Switch for Automation and Electrical OEM

4003GX

Industrial Unmanaged Ethernet Switch

AVCOMM 4003GX is 2-port 10/100/1000Base-TX RJ-45 and 1-port 1000Base-X unmanaged Ethernet switch 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.











Features & Benefits

Fast Ethernet Switching

- Two (2) 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
4003GX	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX , DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4003GX-SC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, SC style connector), DIN-Rail, Singler Power Input 12-48VDC, -40° C to +85° C
4003GX-ST	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, ST style connector), DIN-Rail, Single Power Input 12-48VDC, -40° C to +85° C



4003GXE-SC-15	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 15Km), DIN-Rail, Singlel Power Input 12-48VDC, -40°C to +85°C
4003GXE-ST-15	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 15Km), DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4003GXE-SC-40	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 40Km), DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4003GXE-ST-40	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 40Km), DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4003GXE-SC-80	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 80Km), DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4003GXE-ST-80	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 80Km), DIN-Rail, Single Power Input 12-48VDC, -40°C to +85°C
4003GX-SC-AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, SC style connector), DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4003GX-ST-AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, ST style connector), DIN-Rail, Dual Power Input 88-264VAC, - 40°C to +85°C
4003GXE-SC-15- AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 15Km), DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4003GXE-ST-15- AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 15Km), DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4003GXE-SC-40- AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 40Km), DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4003GXE-ST-40- AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 40Km), DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4003GXE-SC-80- AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 80Km), DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4003GXE-ST-80- AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 80Km), DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4003GX-SC-HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, SC style connector), DIN-Rail, Dual Power Input 88-264VDC, - 40°C to +85°C
4003GX-ST-HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, ST style connector), DIN-Rail, Dual Power Input 88-264VDC, - 40°C to +85°C
4003GXE-SC-15- HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 15Km), DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C



4003GXE-ST-15- HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 15Km), DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C	
4003GXE-SC-40- HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 40Km), DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C	
4003GXE-ST-40- HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 40Km), DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C	
4003GXE-SC-80- HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 80Km), DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C	
4003GXE-ST-80- HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 80Km), DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C	





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	2 x 10/100/1000BasetT(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×100 mm×85 mm (W x H x D) without DIN Rail Clip for AC & HVDC version	
Ingress Protection	IP40	
Weight	470g 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		
ЕМІ	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)	



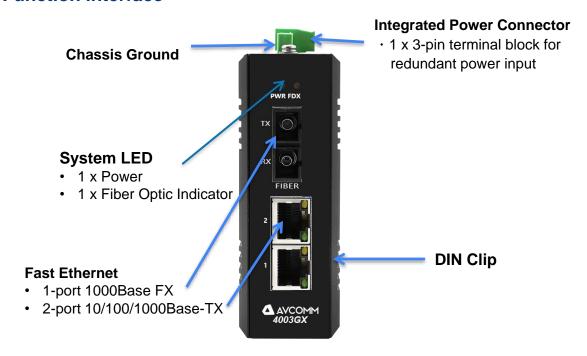


100Base FX				
Multi Mode	AVC-SFP-FX-SX (550m)	Wavelength: 850 nm		
	AVC-SFP-FX-S (2km)	Wavelength: 1310 nm		
Single Mode	AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm		
1000Base FX				
Multi Mode	AVC-SFP-SX (550m)	Wavelength: 850 nm		
	AVC-SFP-LX-S (2km)	Wavelength: 1310 nm		
Single Mode	AVC-SFP-LX-10 (10km)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



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Function interface



Installation dimensions

