



AVCOMM®

4003FX 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

4003FX

Industrial Unmanaged Ethernet Switch

The AVCOMM 4003FX is a 3-port plug and play full Gigabit ethernet industrial ethernet switch. It provides multiple power input options, DC, AC, or High Voltage, for automation and electrical OEM customers' integration. Also, its IP40 industrial rating, wide working temperature, and single power inputs will deliver more reliable working performance. The metal enclosure design provides high anti-electromagnetic interference capability to ensure stable operation in harsh industrial environments. The AVCOMM 4003FX is suitable for industrial applications such as industrial automation, intelligent transportation, video surveillance, and electrical OEMs.



Features & Benefits

Full Gigabit Ethernet Switching

- 2 10/100/1000BaseT(X) RJ-45 ports and 1 1000BaseFX port (Provide SC ST FC interface options)
- 1K MAC address table
- Store and forwarding with non-blocking technology
- IEEE 802.3/802.3u/802.3ab/802.3x/802.3z VLAN priority tagging

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**
- IEC61000-6-2/IEC61000-6-4 heavy industrial EMS

Power protection

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

Ordering Information

Model Name	Description
4003FX	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX, DIN-Rail, Single Power Input 10-50VDC, -40°C-85°C
4003FX-SC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, SC style connector), DIN-Rail, Single Power Input 10-50VDC, -40°C-85°C
4003FX-ST	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Multimode, ST style connector), DIN-Rail, Single Power Input 10-50VDC, -40°C-85°C
4003FXE-SC-15	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 15Km), DIN-Rail, Single Power Input 10-50VDC, -40°C-85°C

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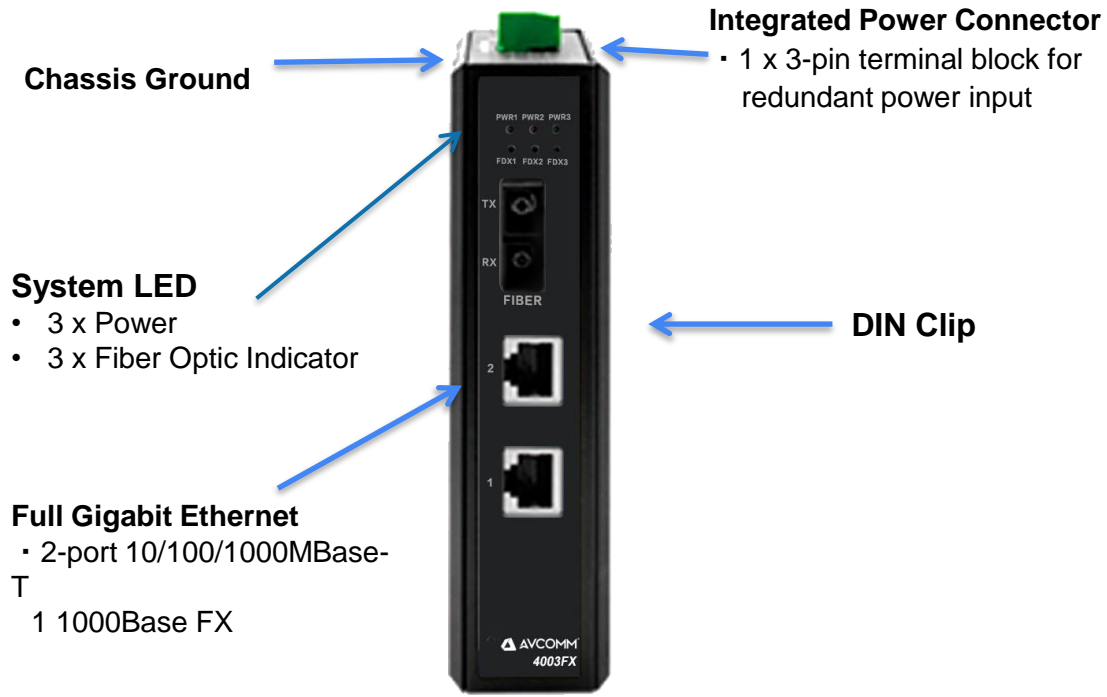
 **Ordering Information**

Model Name	Description
4003FXE-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 10-50VDC, -40°C-85°C
4003FXE-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 10-50VDC, -40°C-85°C
4003FXE-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 10-50VDC, -40°C-85°C
4003FXE-SC-100	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 100Km), DIN-Rail, Single Power Input 10-50VDC, -40°C-85°C
4003FXE-ST-100	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 100Km), DIN-Rail, Single Power Input 10-50VDC, -40°C-85°C
4003FX-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 90-264VAC, -40°C-85°C
4003FX-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 90-264VAC, -40°C-85°C
4003FXE-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 90-264VAC, -40°C-85°C
4003FXE-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 90-264VAC, -40°C-85°C
4003FXE-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 90-264VAC, -40°C-85°C
4003FXE-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 90-264VAC, -40°C-85°C
4003FXE-SC-100-AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 100Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C-85°C
4003FXE-ST-100-AC	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 100Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C-85°C
4003FX-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 90-264VDC, -40°C-85°C
4003FX-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 90-264VDC, -40°C-85°C
4003FXE-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 90-264VDC, -40°C-85°C
4003FXE-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 90-264VDC, -40°C-85°C
4003FXE-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 90-264VDC, -40°C-85°C
4003FXE-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 90-264VDC, -40°C-85°C
4003FXE-SC-100-HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, SC style connector, 100Km), DIN-Rail, Dual Power Input 90-264VDC, -40°C-85°C
4003FXE-ST-100-HV	3-Port Industrial Unmanaged Ethernet Switch, 2 RJ45 10/100/1000BaseT(X), 1 1000BaseFX (Singlemode, ST style connector, 100Km), DIN-Rail, Dual Power Input 90-264VDC, -40°C-85°C

 Specifications

Technology	
Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-TX and 1000Base FX Gigabit Ethernet copper
	IEEE 802.3z Gigabit Ethernet Fiber
	IEEE 802.3x Flow Control and back-pressure
Performance	
Switch Technology	Store and Forwarding Technology with non-blocking
Number of MAC Address	1K
Packet Buffer Memory	1 M Bytes
Backplane bandwidth	12 G
Forwarding rate	1488095pps
Maximum frame length	10 KB
Interface	
Ethernet Port	2 x 10/100/1000BaseT(x)RJ-45 , 1 x 1000Base FX Auto Negotitation
System LED	3 x Power: Green On ; 3 x Fiber Optic Indicator:Green On
Ethernet Port LED	Link (Green On), Active (Green Blinking)
Power Input	3-Pin Removable Terminal Connector (V-/N, V+/L, V-/N, V+/L)
Power Requirement	
Input Voltage	12/24/48VDC (10~50VDC) or 110/220VAC(90~264VAC) or 110/220VDC(90~264VDC) , Redundant
Reverse Polarity Protect	Yes
Power Consumption	100mA@24V
Mechanical	
Enclosure Material	Metal
Dimension	35 x 100 x 80 (W x H x D) without DIN Rail Clip
Ingress Protection	IP40
Weight	~470g
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	3 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) IEC 60068-2-32(Freefall) IEC 60068-2-6(Vibration)

Function interface



Installation dimensions

(mm)

