

412FX4 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

412FX4



Reliable Plug and Play Industrial Ethernet Switch for Automation and Electrical OEM

412FX4

Industrial Unmanaged Ethernet Switch

AVCOMM 412FX4 is a 12-port plug and play fast unmanaged Ethernet switch 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 Railmounted to facilitate in various industrial network applications. AVCOMM 412FX4 is suitable for industrial applications such as industrial automation, intelligent transportation, video surveillance, and electrical OEMs.







Features & Benefits

Fast Ethernet Switching

- Eight(8) 10/100BaseT(X) RJ-45 ports and four(4) 100BaseFX port (SC ST FC optional)
- · 8K MAC address table
- \cdot Store and forwarding with non-blocking technology

IEEE 802.3u EEE Power Management

- · Ultra power consumption efficiency, 15 W fully loaded
- · Energy Efficient Ethernet for low power requirement
- \cdot 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	n	Informatio	Ordering	團
----------------------	---	------------	----------	---

Model Name	Description
412FX4	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX , DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C
412FX4-SC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Multimode, SC style connector), DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C
412FX4-ST	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Multimode, ST style connector), DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C

AVCOMM Technologies, Inc. All rights reserved. Trademarks and trade names that may be used in this document are owned by their respective companies. Specifications subject to change without notice. Please ask our sales for the most up-to-date product information. Avcomm Technologies Inc. Add: 333 West Loop North Ste. 460, Houston, TX 77024





Ordering Information

Model Name	Description
412FXE4-SC-15	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, SC style connector, 15Km), DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C
412FXE4-ST-15	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C
412FXE4-SC-40	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, SC style connector, 40Km) , DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C
412FXE4-ST-40	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, ST style connector, 40Km) , DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C
412FXE4-SC-100	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, SC style connector, 100Km) , DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C
412FXE4-ST-100	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, ST style connector, 100Km) , DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C
412FX4-SC-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
412FX4-ST-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
412FXE4-SC-15-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, SC style connector, 15Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
412FXE4-ST-15-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, ST style connector, 15Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
412FXE4-SC-40-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, SC style connector, 40Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
412FXE4-ST-40-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, ST style connector, 40Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
412FXE4-SC-100-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, SC style connector, 100Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
412FXE4-ST-100-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, ST style connector, 100Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
412FX4-SC-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
412FX4-ST-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
412FXE4-SC-15-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, SC style connector, 15Km), DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
412FXE4-ST-15-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, ST style connector, 15Km), DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
412FXE4-SC-40-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, SC style connector, 40Km), DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
412FXE4-ST-40-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, ST style connector, 40Km), DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
412FXE4-SC-100-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, SC style connector, 100Km), DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
412FXE4-ST-100-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 100BaseFX (Singlemode, ST style connector, 100Km) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C

AVCOMM Technologies, Inc. All rights reserved. Trademarks and trade names that may be used in this document are owned by their respective companies. Specifications subject to change without notice. Please ask our sales for the most up-to-date product information. Avcomm Technologies Inc. Add: 333 West Loop North Ste. 460, Houston, TX 77024

412FX4

Specifications -



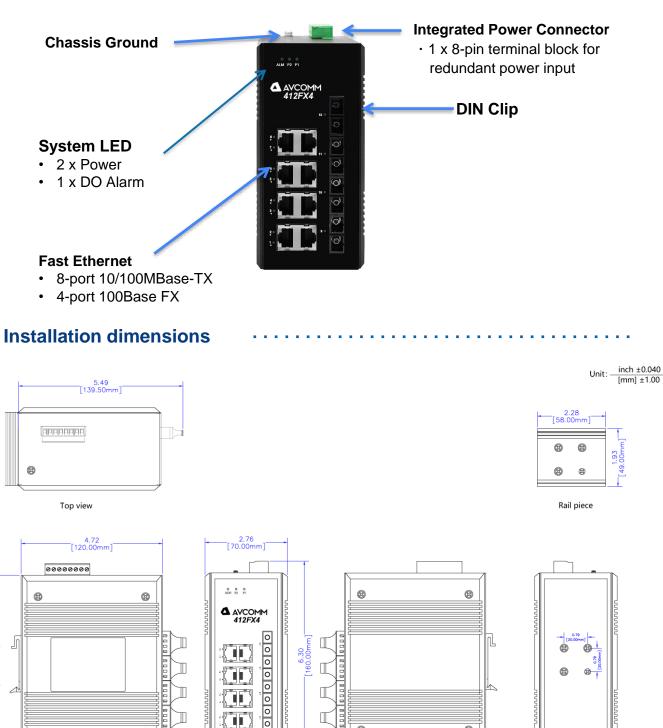
Technology			
	IEEE 802.3 10Base-T Ethernet		
Standard	IEEE 802.3u 100Base-TX and 100Base FX Fast Ethernet		
Stanuaru	IEEE 802.3z		
	IEEE 802.3x Flow Control and bac	x-pressure	
Performance			
Switch Technology	Store and Forwarding Technology with non-blocking		
Number of MAC Address	8К		
Packet Buffer Memory	3 MB		
Backplane bandwidth	9.6 Gbps		
Forwarding rate	148810pps/1,488,095pps		
Maximum frame length	2 KB		
Interface			
Ethernet Port	8 x 10/100BasetT(x)RJ-45 , 4 x 100Base FX, Auto Negotiation		
System LED	2 x Power: Green On ; 1 x DO Alarm: Red on		
Ethernet Port LED	Link (Green On), Active (Green Blinking)		
Power Input	8-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	625mA@24V		
Mechanical			
Enclosure Material	Metal		
Dimension	70 mm x 150 mm x 120 mm (W x H x D) without DIN Rail Clip		
Ingress Protection	IP40		
Weight	<1700 g		
Installation method	DIN Rail-mounted		
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, CISPR(EN55022) cla	ass 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)		
100Base FX			
Multi Mode	AVC-SFP-FX-SX (550m)	Wavelength: 850 nm	
Single Mode	AVC-SFP-FX-S (2km) AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm Wavelength: 1310 nm	

AVCOMM Technologies, Inc. All rights reserved. Trademarks and trade names that may be used in this document are owned by their respective companies. Specifications subject to change without notice. Please ask our sales for the most up-to-date product information. Avcomm Technologies Inc. Add: 333 West Loop North Ste. 460, Houston, TX 77024









Left side view

8

5.91 150.00mm]

Front view

Right side view

A

8



Rear view

AVCOMM Technologies, Inc. All rights reserved. Trademarks and trade names that may be used in this document are owned by their respective companies. Specifications subject to change without notice. Please ask our sales for the most up-to-date product information. Avcomm Technologies Inc. Add: 333 West Loop North Ste. 460, Houston, TX 77024

3