

412GX4 Datasheet

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



AVCOMM Technologies, Inc

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412GX4



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

412GX4

Industrial Unmanaged Ethernet Switch

AVCOMM 412GX4 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 Rail-mounted to facilitate in various industrial network applications. AVCOMM 412GX4 is suitable for industrial applications such as industrial automation, intelligent transportation, video surveillance, and electrical OEMs.





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Features & Benefits

Fast Ethernet Switching

- Eight(8) 10/100BaseT(X) RJ-45 ports and four(4) 1000BaseFX port (SC ST FC optional)
- · 8K MAC address table
- · 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
- · Idle power saving mode for energy efficiency

Ordering Information

Rugged Mechanical Design

- \cdot 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

Model Name	Description
412GX4	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX (SFP), DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C
412GX4-SC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C
412GX4-ST	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C

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Ordering Information

Model Name	Description	
412GXE4-SC-15	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX (connector, 15Km), DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C	Singlemode, SC style
412GXE4-ST-15	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 15Km) , DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C	(Singlemode, ST
412GXE4-SC-40	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 40Km) , DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C	(Singlemode, SC
412GXE4-ST-40	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 40Km) , DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C	(Singlemode, ST
412GXE4-SC-80	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 80Km), DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C	(Singlemode, SC
412GXE4-ST-80	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 80Km) , DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C	(Singlemode, ST
412GX4-SC-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX connector), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C	(Multimode, SC style
412GX4-ST-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX connector), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C	(Multimode, ST style
412GXE4-SC-15-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 15Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C	(Singlemode, SC
412GXE4-ST-15-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 15Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C	(Singlemode, ST
412GXE4-SC-40-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 40Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C	(Singlemode, SC
412GXE4-ST-40-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 40Km), DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C	(Singlemode, ST
412GXE4-SC-80-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 80Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C	(Singlemode, SC
412GXE4-ST-80-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 80Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C	(Singlemode, ST
412GX4-SC-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX connector), DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C	(Multimode, SC style
412GX4-ST-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX connector), DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C	(Multimode, ST style
412GXE4-SC-15-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 15Km) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C	(Singlemode, SC
412GXE4-ST-15-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 15Km) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C	(Singlemode, ST
412GXE4-SC-40-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 40Km) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C	(Singlemode, SC
412GXE4-ST-40-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 40Km) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C	(Singlemode, ST
412GXE4-SC-80-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 80Km) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C	(Singlemode, SC
412GXE4-ST-80-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100BaseT(X), 4 1000BaseFX style connector, 80Km), DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C	(Singlemode, ST

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412GX4

Specifications -



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Technology				
	IEEE 802.3 10Base-T Ether	rnet		
Standard	IEEE 802.3u 100Base-TX and 100Base FX Fast Ethernet			
Stanuaru	IEEE 802.3z			
	IEEE 802.3x Flow Control and back-pressure			
Performance				
Switch Technology	Store and Forwarding Technology with non-blocking			
Number of MAC Address	8K			
Packet Buffer Memory	3 MB			
Backplane bandwidth	9.6 Gbps			
Forwarding rate	148810pps/1488095pps			
Maximum frame length	2 KB			
Interface				
Ethernet Port	8 x 10/100BasetT(x)RJ-45 , 4 x 1000Base 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		n (W x H x D) without DIN Rail Clip		
Ingress Protection	IP40			
Weight	<1700 g DIN Rail-mounted			
Installation method Environmental	Din Kai-mounted			
Operating Temperature &				
Humidity	-40°C~+85°C,0%~95% N	on- Condensing		
Storage Temperature	-40°C ~ +85°C			
MTBF	>2,000,000 hours			
Warranty	5 years			
Standard				
EMI	ECC Part EN55022 class A			
EMS	FCC Part, EN55022 class A	\		
EWIS	IEC(EN)61000-4-2(ESD)			
	IEC(EN)61000-4-4(EFT)			
	IEC(EN)61000-4-5(Surge)			
	IEC(EN)61000-4-6(CS)			
	IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock)			
	IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8			
100Base FX	IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock)			
	IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock)	Wavelength: 850 nm		
Multi Mode	IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock) IEC 60068-2-32(Freefall) AVC-SFP-FX-SX (550m) AVC-SFP-FX-S (2km)	Wavelength: 850 nm Wavelength: 1310 nm		
Multi Mode Single Mode	IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock) IEC 60068-2-32(Freefall) AVC-SFP-FX-SX (550m)	-		
Multi Mode	IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock) IEC 60068-2-32(Freefall) AVC-SFP-FX-SX (550m) AVC-SFP-FX-S (2km)	Wavelength: 1310 nm		
Multi Mode Single Mode 1000Base FX	IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock) IEC 60068-2-32(Freefall) AVC-SFP-FX-SX (550m) AVC-SFP-FX-S (2km)	Wavelength: 1310 nm		
Multi Mode Single Mode	IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock) IEC 60068-2-32(Freefall) AVC-SFP-FX-SX (550m) AVC-SFP-FX-S (2km) AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm Wavelength: 1310 nm		

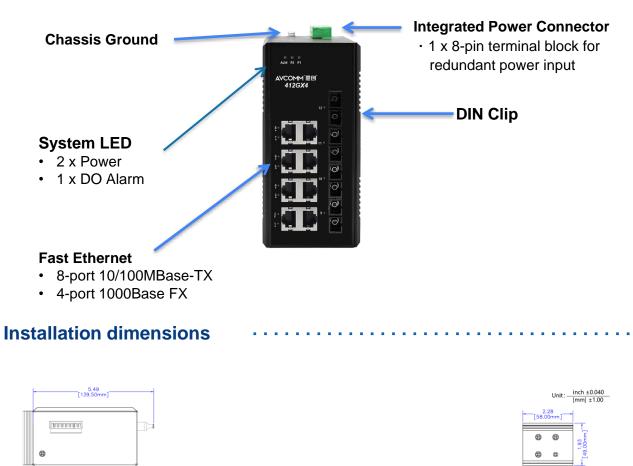
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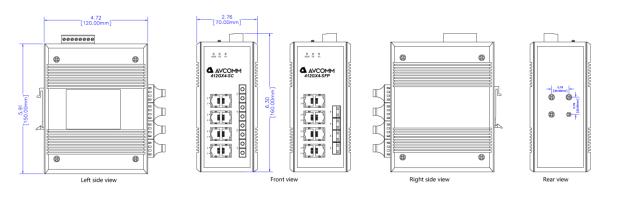


Rail piece





Top view



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