

4012GX4 Datasheet

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



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United States



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

4012GX4

Industrial Unmanaged Ethernet Switch

AVCOMM 4012GX4 is 8-port 10/100/1000Base-TX RJ-45 and 4-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

- Eight (8) 10/100/1000BaseT(X) RJ-45 ports and four (4) 1000BaseFX port (SC ST FC optional)
- · 8 K 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

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
4012GX4	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100/1000BaseT(X), 4 SFP Slots 1000BaseSFP+, DIN-Rail, Dual Power Input 12-48VDC, -40°C to + 85°C
4012GX4-AC	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100/1000BaseT(X), 4 SFP Slots 1000BaseSFP+, DIN-Rail, Dual Power Input 88-264VAC, -40°C to +85°C
4012GX4-HV	12-Port Industrial Unmanaged Ethernet Switch, 8 RJ45 10/100/1000BaseT(X), 4 SFP Slots 1000BaseSFP+, DIN-Rail, Dual Power Input 88-264VDC, -40°C to +85°C

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Specifications

Technology		
Standard	IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3ab	
Performance		
Switch Technology	Store and Forwarding Technology with non-blocking	
Number of MAC Address	8K	
Packet Buffer Memory	2 MB	
Backplane bandwidth	24 Gbps	
Forwarding rate	1488095pps	
Interface		
Ethernet Port	8 x 10/100/1000BasetT(x)RJ-45 , 4 x 1000Base FX, auto-MDI/MDI-X	
System LED	2 x Power: Green On ; 1 x DO Alarm: Red On ; 1 x RUN: Green On	
Ethernet Port LED	Link (Green On), Active (Green Blinking)	
Power Input	8-Pin Removable Terminal Connector	
Power Requirement		
Input Voltage	12/24/48VDC (10~50VDC) or 110/220VAC(88~264VAC) or 110/220VDC(88~264VDC) , Redundant	
Reverse Polarity Protect	Yes	
Power Consumption	15W	
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	1600g	
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		
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) IEC 60068-2-32(Freefall)	

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Specifications -

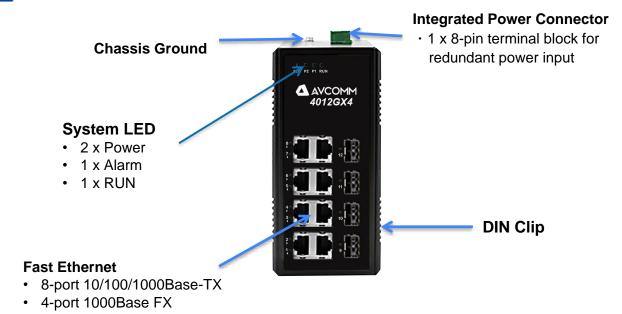
100Base FX				
Multi Mode	AVC-SFP-FX-SX (550m)	Wavelength: 850 nm		
	AVC-SFP-FX-S (2km)	Wavelength: 1310 nm		
Single Mode	AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm		
1000Base FX				
Multi Mode	AVC-SFP-SX (550m)	Wavelength: 850 nm		
	AVC-SFP-LX-S (2km)	Wavelength: 1310 nm		
Single Mode	AVC-SFP-LX-10 (10km)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

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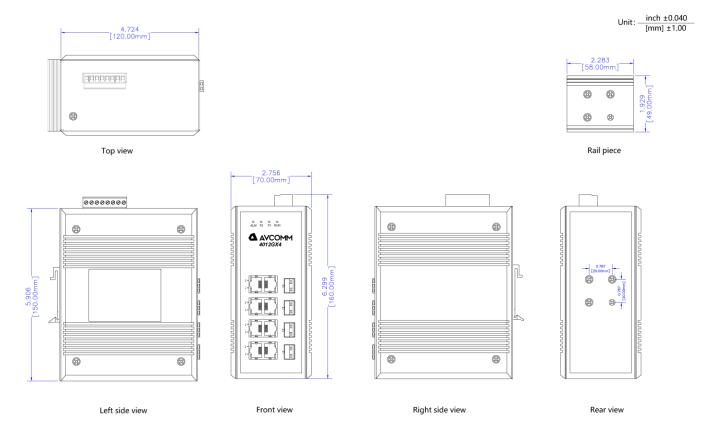


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Function interface



Installation dimensions



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