

4020GX4 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



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

4020GX4

Industrial Unmanaged Ethernet Switch

AVCOMM 4020GX4 is 16-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

- · Sixteen (16) 10/100/1000BaseT(X) RJ-45 ports and four (4) 1000BaseFX port (SC ST FC optional)
- · 16K 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 ~ +75°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
4020GX4	20-Port Industrial Unmanaged Ethernet Switch, 16 RJ45 10/100/1000BaseT(X), 4 1000BaseFX, DIN-Rail, Dual Power Input 12-48VDC, -40°C to + 75°C
4020GX4-AC	20-Port Industrial Unmanaged Ethernet Switch, 16 RJ45 10/100/1000BaseT(X), 4 1000BaseFX, DIN-Rail, Dual Power Input 88-264VAC, -40°C to +75°C
4020GX4-HV	20-Port Industrial Unmanaged Ethernet Switch, 16 RJ45 10/100/1000BaseT(X), 4 1000BaseFX, DIN-Rail, Dual Power Input 88-264VDC, -40°C to +75°C

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Specifications -

Tochnology			
Technology Standard	IFFE 000 2 IFFE 000 2 UFFE 000 2 UFFFE 000 2 UFFE 000 2		
	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x		
Performance			
Switch Technology Number of MAC	Store and Forwarding Technology with non-blocking		
Address	6K		
Packet Buffer Memory	12 MB		
Backplane bandwidth	40 Gbps		
Forwarding rate	1488095pps		
Interface			
Ethernet Port	16x 10/100/1000BasetT(x)RJ-45 , 4 x 1000Base FX Auto Negotiation		
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(90~264VAC) or 110/220VDC(90~264VDC) , 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 ~ +75°C , 0%~95% Non- Condensing		
Storage Temperature	-40°C ~ +75°C		
MTBF	>2,000,000 hours		
Warranty	5 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)		

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Specifications -

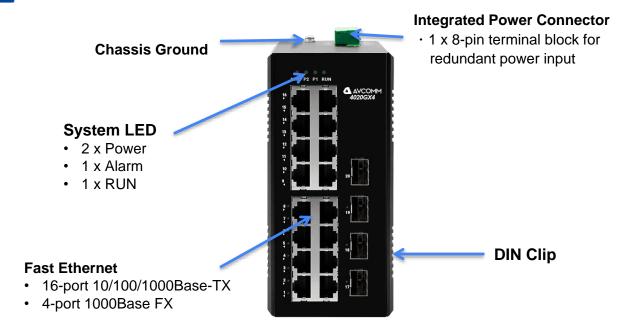
100Base FX				
Multi Mode	AVC-SFP-FX-SX (550m)	Wavelength: 850 nm		
	AVC-SFP-FX-S (2km)	Wavelength: 1310 nm		
Single Mode	AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm		
1000Base FX				
Multi Mode	AVC-SFP-SX (550m)	Wavelength: 850 nm		
	AVC-SFP-LX-S (2km)	Wavelength: 1310 nm		
Single Mode	AVC-SFP-LX-10 (10km)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

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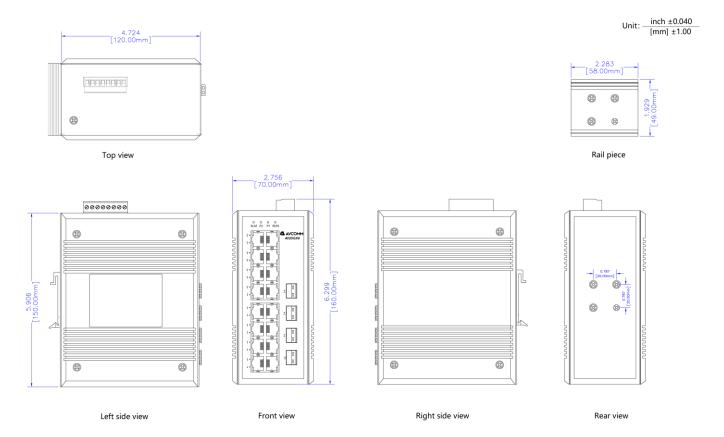
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Function interface





Installation dimensions



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