



610GX2

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

610GX2

Industrial Management Switch

AVCOMM 610GX2 is managed Industrial Ethernet Switch which provide eight 10/100baseTX ports, two 1000Base-X ports and one console port. It supports CLI management and Ethernet layer-2 protocol to ensure the stability of the data transmission. Fanless design with low power consumption and high anti-EMI capability enable the stable operation in harsh industrial environments. AVCOMM 610GX2 supports DIN Rail-mounted/wall-mounted to facilitate in various industrial network applications.



Features & Benefits

Fast Ethernet Switching

- Eight(8) 10 /100BaseTX RJ-45 ports and two(2) 1000Base-X ports(SC ST SFP optional)
- 8K MAC address table
- Store and forwarding with non-blocking technology

IEEE 802.3u EEE Power Management

- Ultra power consumption efficiency, 9.6 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
- IEC61000-6-2 /IEC61000-6-4 heavy industry EMS standards

Power protection

- Provide overload protection
- Provide reverse connection protection



Order Information

Model Name	Description
610GX2-SC	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 1000BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 10-50VDC, -40°C-75°C
610GX2-SC-AC	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 1000BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 110/220VAC (88~264VAC)
610GX2-SC-HV	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 1000BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 110/220VDC (88~264VDC)
610GX2-ST	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 1000BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 10-50VDC, -40°C-75°C
610GX2-ST-AC	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 1000BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 110/220VAC (88~264VAC)
610GX2-ST-HV	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 1000BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 110/220VDC (88~264VDC)
610GX2-SFP	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 1000BaseFX (SFP) , DIN-Rail, Dual Power Input 10-50VDC, -40°C-75°C
610GX2-SFP-AC	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 1000BaseFX (SFP) , DIN-Rail, Dual Power Input 110/220VAC (88~264VAC)
610GX2-SFP-HV	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 1000BaseFX (SFP) , DIN-Rail, Dual Power Input 110/220VDC (88~264VDC)

 Specifications

Technology		
Standard	IEEE 802.3u, IEEE 802.3z, IEEE 802.3, IEEE 802.1D, IEEE 802.1W, IEEE 802.1s, IEEE 802.3x, IEEE 802.1Q, IEEE 802.1p, IEEE 802.1x	
Performance		
Switch Technology	Store and Forwarding Technology	
Number of MAC Address	8K	
Packet Buffer Memory	1 MB	
Backplane bandwidth	7.6 Gbps	
Forwarding rate	148810pps/1488095pps	
Interface		
Ethernet Port	8 x 10/100BaseT(x)RJ-45, auto-MDI/MDI-X, 2 x 1000Base-X	
System LED	2 x Power: Green On, 1 x DO Alarm: Red on, 1 x Run: Green On, 2 x Fiber optical: Green On	
Ethernet Port LED	Link (Green On), Active (Green Blinking)	
Power Input	Pluggable 6-pin terminals (V-/N, V+/L, V-/N, V+/L)	
Power Requirement		
Input Voltage	12/24/48VDC(10.8~52.8VDC), Redundant	
Reverse Polarity Protect	Yes	
Power Consumption	400mA@24V	
Mechanical		
Enclosure Material	Metal	
Dimension	150 mm x 47.6 mm x 100 mm (W x H x D) without DIN Rail Clip	
Ingress Protection	IP40	
Weight	930g	
Installation method	DIN Rail-mounted/Wall-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) 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)	
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

Function interface

Chassis Grounding

Console Port

System LED

- 2 x Power
- 1 x Run
- 1 x Alarm
- 2 x Fiber optical

Integrated Power Connector

- redundant power input: 1x6-pin terminal block

DIN Clip

Fast Ethernet

- 2-port 1000Base-X
- 8-port 10/100Base-TX



Installation dimensions

Unit: $\frac{\text{inch} \pm 0.040}{[\text{mm}] \pm 1.00}$

