2003GX
Datasheet

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

Reliable Plug And Play Industrial Ethernet Switch For Automation And Electrical OEM

2003GX

Industrial Unmanaged Ethernet Switch

2003GX have 1x100/1000BaseX SFP Port and 2x10/100/1000BaseT(X) Ports, which are ideal for applications that require simple industrial Ethernet connections. To provide greater versatility for use with applications from different industries, the 2003GX also allows users to enable or disable the Quality of Service (QoS) function, and broadcast storm protection (BSP) with DIP switches on the outer panel. In addition, 2003GX has a rugged metal housing to ensure suitability for use in industrial. 2003GX has a 12/24/48 VDC & 24VAC single power input, DIN-rail mounting, and high-level EMI/EMC capability. In addition to its compact size, 2003GX has passed a 100% burn-in test to en− sure it will function reliably after it has been deployed.

FC CE cULus IEC61000-6-2 IEC61000-6-4

Features & Benefits

Fast Ethernet Switching

- 1x100/1000BaseX SFP Port and 2x10/100/1000BaseT(X) Ports
- 4K MAC address table
- Store and forward

IEEE 802.3u EEE Power Management

- Ultra low power design, 5W when full loading
- Energy Efficient Ethernet for low power requirement
- Idle power saving mode for energy efficiency

Rugged Mechanical Design

- Robust design protects from mechanical deformation
- IP30 ingress protection to withstand harsh environment
- Wide operating temperature range -40°C ~ +75°C
- IEC61000-6-2/IEC61000-6-4 heavy industrial EMS

Power protection

- Provide overload protection
- Provide reverse connection protection
- Provide DC&AC power input

Ordering Information

Model Name	Description
2003GX	Industrial Unmanaged Ethernet Switch, 1x100/1000BaseX SFP port and 2x10/100/1000 BaseT(X) ports, DIN Rail, 12/24/48VDC(10 to 60VDC) &24VAC (18 to 30VAC) single power input, -40°C to +75°C

⚙ Specifications

Performance	
Switch Technology	Store and Forward
Backplane Bandwidth	16Gbps (Max)
MAC Table Size	4K (Max)
Packet Buffer Size	1.5Mb (Max)
DIP Switch Configuration	
Ethernet Interface	Quality of Service (QoS), Broadcast Storm Protection (BSP)
Interface	
Ethernet Port	1x100/1000BaseX SFP port and 2x10/100/1000 BaseT(X) ports, Auto-Negotiation
System LED	PWR Power indicator, network indicator
Ethernet Port LED	Link (Green On), Active (Green Blinking)
Power Input	1 removable 2-contact terminal block
Power Requirement	
Input Voltage	12/24/48VDC (10~60VDC))&24VAC(18 to 30VAC)
Reverse Polarity Protect	Yes
Operating Voltage	9.6~60 VDC & 18~30 VAC
Overload Current Protection	Yes
Power Consumption	<5W
Mechanical	
Enclosure Material	Steel Metal
Dimension	24 mm x 100 mm x 61.8 mm (W x H x D) without DIN Rail Clip
Ingress Protection	IP30
Weight	~230g
Installation method	DIN Rail
Environmental	
Operating Temperature & Humidity	-40°C ~ +75°C , 5%~95% Non- Condensing
Storage Temperature	-40°C ~ +85°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) IEC 60068-2-6(Vibration)

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

Integrated Power Connector
· 1 removable 2-contact terminal block

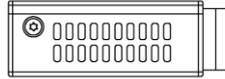**System LED**
· 1 x Power

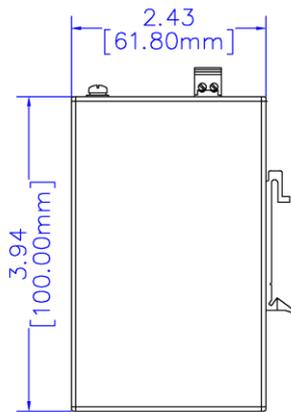**Chassis Ground**

Fast Ethernet
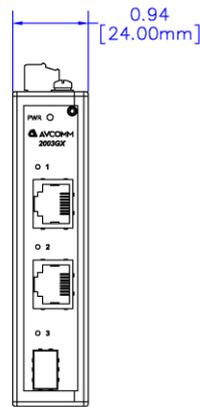• 1x100/1000BaseX SFP Port and 2x10/100/1000BaseT(X) Ports

Installation dimensions

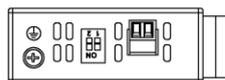Unit: $\frac{\text{inch} \pm 0.040}{\text{[mm]} \pm 1.00}$

Bottom view

2.43
[61.80mm]

3.94
[100.00mm]

0.94
[24.00mm]

Side view

Front view

Top view

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