



# 610FX2

# 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

### 610FX2

#### Industrial Management Switch

AVCOMM 610FX2 is managed Industrial Ethernet Switch which provide eight 10/100BaseTX ports, two 100BaseFX 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 610FX2 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) 100BaseFX ports(ST)
- 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

#### 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
610FX2-ST	10-Port Fully Managed Industrial Ethernet Switch, 8 RJ45 10/100BaseT(X), 2 100BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 10-50VDC, -40°C to +85°C

 Specifications

<b>Technology</b>		
<b>Standard</b>	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	
<b>Performance</b>		
<b>Switch Technology</b>	Store and Forwarding Technology	
<b>Number of MAC Address</b>	8K	
<b>Packet Buffer Memory</b>	3 MB	
<b>Backplane bandwidth</b>	9.6 Gbps	
<b>Forwarding rate</b>	148810pps/1488095pps	
<b>Interface</b>		
<b>Ethernet Port</b>	8 x 10/100BaseT(x)RJ-45, auto-MDI/MDI-X, 2 x 100Base-FX	
<b>System LED</b>	2 x Power: Green On, 1 x DO Alarm: Red on, 1 x Run: Green On	
<b>Ethernet Port LED</b>	Link (Green On), Active (Green Blinking)	
<b>Power Input</b>	Pluggable 8-pin terminals (V-/N, V+/L, V-/N, V+/L)	
<b>Power Requirement</b>		
<b>Input Voltage</b>	12/24/48VDC(10.8~52.8VDC), Redundant	
<b>Reverse Polarity Protect</b>	Yes	
<b>Power Consumption</b>	625mA@24V	
<b>Mechanical</b>		
<b>Enclosure Material</b>	Metal	
<b>Dimension</b>	150 mm x 120 mm x 70 mm (W x H x D) without DIN Rail Clip	
<b>Ingress Protection</b>	IP40	
<b>Weight</b>	≤1700g	
<b>Installation method</b>	DIN Rail-mounted	
<b>Environmental</b>		
<b>Operating Temperature &amp; Humidity</b>	-40°C ~ +85°C , 0%~+95% Non- Condensing	
<b>Storage Temperature</b>	-40°C ~ +85°C	
<b>MTBF</b>	>2,000,000 hours	
<b>Warranty</b>	5 years	
<b>Standard</b>		
<b>EMI</b>	FCC Part 15, CISPR (EN55022) class A	
<b>EMS</b>	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)	
<b>100Base FX</b>		
<b>Multi Mode</b>	AVC-SFP-FX-SX (550m)	Wavelength: 850 nm
	AVC-SFP-FX-S (2km)	Wavelength: 1310 nm
<b>Single Mode</b>	AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm

## Function interface

**Chassis Grounding**

**Integrated Power Connector**

- redundant power input: 1x8-pin terminal block

**System LED**

- 2 x Power
- 1 x Run
- 1 x Alarm



**Reset**

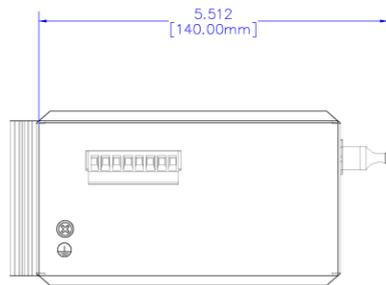
**Console Port**

**DIN Clip**

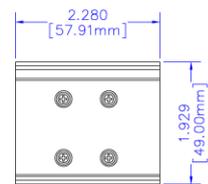
**Fast Ethernet**

- 2-port 100Base-FX
- 8-port 10/100Base-TX

## Installation dimensions

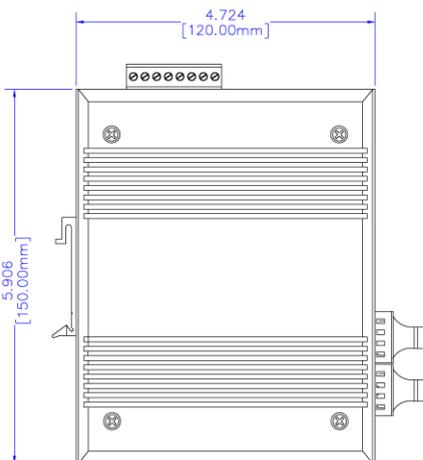


Top view

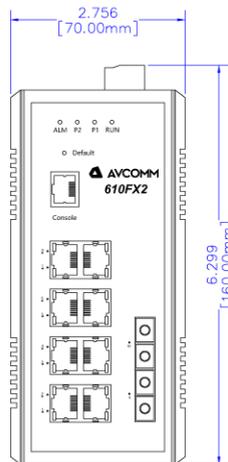


Rail piece

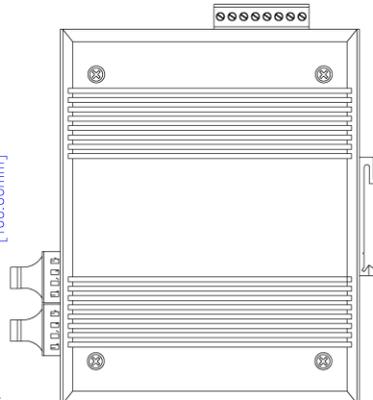
Unit:  $\frac{\text{inch} \pm 0.040}{[\text{mm}] \pm 1.00}$



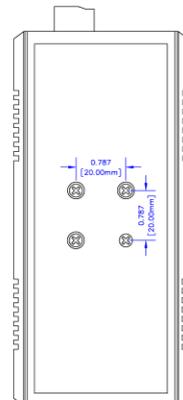
Left side view



Front view



Right side view



Rear view

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