620TX
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

620TX

Industrial Management Switch

AVCOMM 620TX is managed Industrial Ethernet Switch which provide twenty 10/100baseTX 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 620TX supports DIN Rail-mounted to facilitate in various industrial network applications.

Features & Benefits

Fast Ethernet Switching

- Twenty(20) 10 /100BaseTX RJ-45 ports
- 8K MAC address table
- Store and forwarding with non-blocking technology

IEEE 802.3u EEE Power Management

- Ultra power consumption efficiency, 20W 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
- IEC61000-6-2 /IEC61000-6-4 heavy industry EMS standards

Power protection

- Provide overload protection
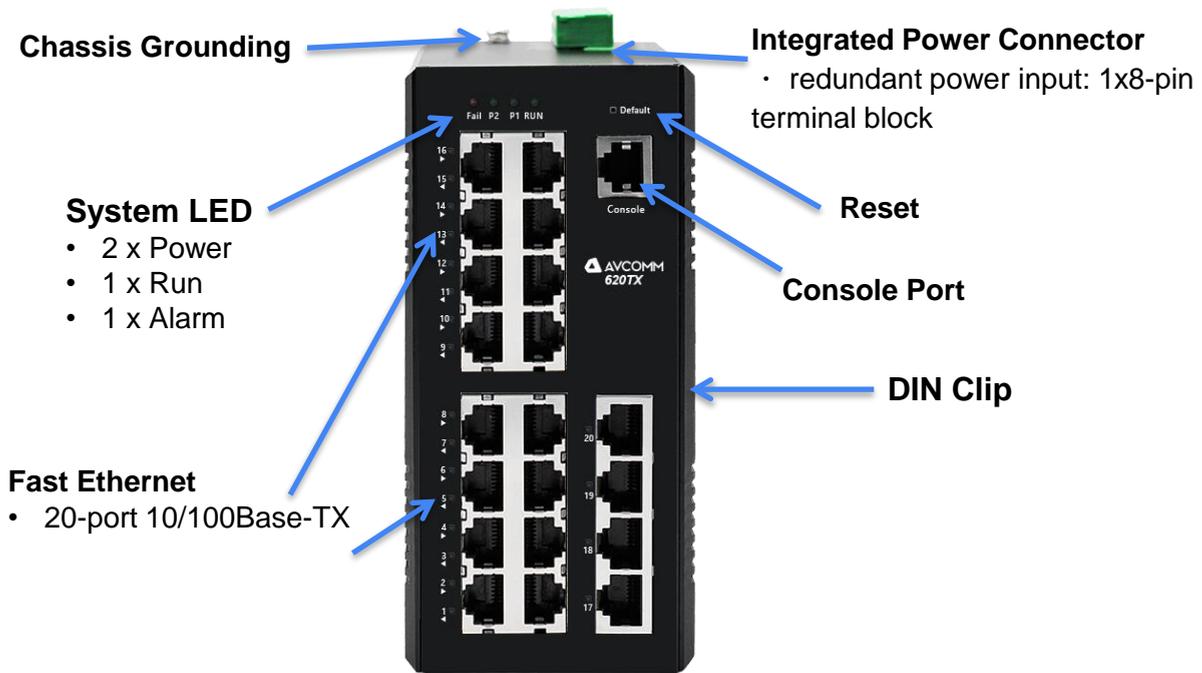- Provide reverse connection protection

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Order Information

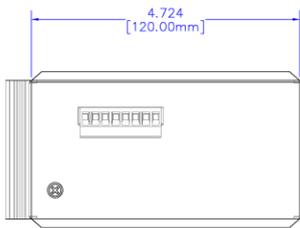| Model Name	Description
620TX	20-Port Fully Managed Industrial Ethernet Switch, 20 RJ45 Ports 10/100Base-T(X), DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C
620TX-16T-4GT	20-Port Fully Managed Industrial Ethernet Switch, 16 RJ45 Ports 10/100Base-T(X), 4 RJ45 Ports 10/100/1000Base-T(X), DIN-Rail, Dual Power Input 12-48VDC, -40°C to +85°C

Specifications

Technology	
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3z, IEEE802.1Q、IEEE802.1p, IEEE802.1D, IEEE802.1W, IEEE802.1x

Performance	
Switch Technology	Store and Forwarding Technology
Number of MAC Address	8K
Packet Buffer Memory	3 MB
Backplane bandwidth	11.2 Gbps
Forwarding rate	148810pps/1488095pps

Interface	
Ethernet Port	20 x 10/100BasetT(x)RJ-45, auto-MDI/MDI-X
System LED	2 × Power: Green On, 1 × DO Alarm: Red on, 1 × Run: Green On
Ethernet Port LED	Link (Green On), Active (Green Blinking)
Power Input	Pluggable 8-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	830mA@24V

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	≤2000g
Installation method	DIN Rail-mounted

Environmental	
Operating Temperature & Humidity	-40°C ~ +75°C , 0%~+95% Non- Condensing
Storage Temperature	-40°C ~ +85°C
MTBF	>2,000,000 hours
Warranty	5 years

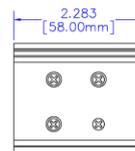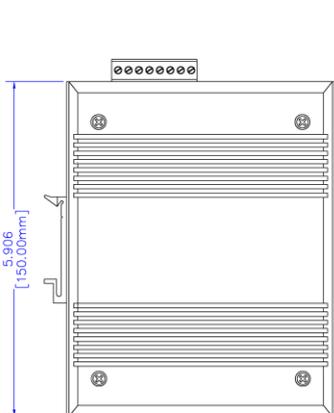| Standard	
EMI	FCC Part 15，CISPR (EN55022) class A
EMS	IEC(EN)61000-4-2(ESD) IEC(EN)61000-4-3(RS) IEC(EN)61000-4-4(EFT) IEC(EN)61000-4-5(Surge) IEC(EN)61000-4-6(CS) IEC(EN)61000-4-8 IEC 60068-2-27(Shock) IEC 60068-2-32(Freefall)

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
- 20-port 10/100Base-TX

Installation dimensions

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

4.724 [120.00mm]

Top view

2.283 [58.00mm]

Rail piece

2.756 [70.00mm]

5.906 [150.00mm]

6.299 [160.00mm]

0.787 [20.00mm]

0.787 [20.00mm]
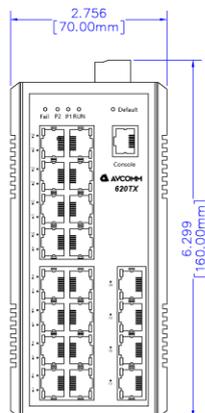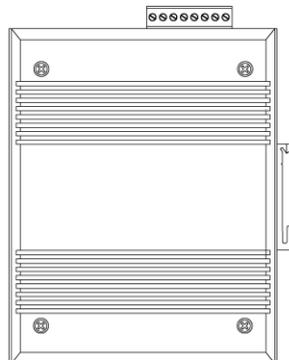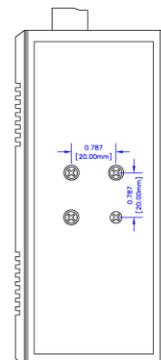
Left side view

Front view

Right side view

Rear view

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