



AVCOMM®

2005TX

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

2005TX

Industrial Unmanaged Ethernet Switch

2005TX have 5-10/100/1000BaseT(X) RJ45 ports, which are ideal for applications that require simple industrial Ethernet connections. To provide greater versatility for use with applications from different industries, the 2005TX 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, 2005TX has a rugged metal housing to ensure suitability for use in industrial. 2005TX 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, 2005TX has passed a 100% burn-in test to ensure it will function reliably after it has been deployed.



Features & Benefits

Fast Ethernet Switching

- Five(5) 10/100/1000BaseT(X) RJ-45 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
2005TX	5-Port Industrial Unmanaged Ethernet Switch, 5x10/100/1000BaseT(X) RJ45, 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	5 x 10/100/1000BaseT(x) RJ-45, 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)

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Function interface

Integrated Power Connector

- 1 removable 2-contact terminal block

System LED

- 1 x Power



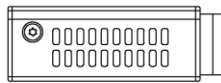
Chassis Ground

Fast Ethernet

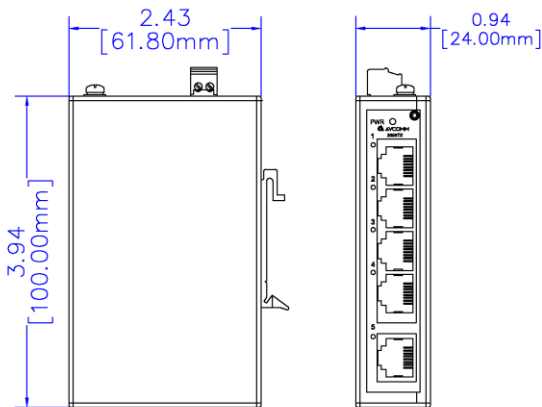
- 5-port 10/100/1000MBase-TX

Installation dimensions

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



Bottom view



Side view

Front view



Top view