



# 405FX

# 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

### 405FX

#### Industrial Unmanaged Ethernet Switch

AVCOMM 405FX is a 5-port plug and play fast unmanaged Ethernet switch with reverse polarity protection of AC or DC input for automation and electrical OEM purpose. It has wide operation temperature range, high EMC performance to ensure stable work in harsh industrial environments and supports DIN Rail-mounted/wall-mounted to facilitate in various industrial network applications. AVCOMM 405FX is suitable for industrial applications such as industrial automation, intelligent transportation, video surveillance, and electrical OEMs.



#### Features & Benefits

##### Fast Ethernet Switching

- Four(4) 10/100BaseT(X) RJ-45 ports and one(1) 100BaseFX port (SC ST FC optional)
- 1K MAC address table
- Store and forwarding with non-blocking technology

##### IEEE 802.3u EEE Power Management

- Ultra power consumption efficiency, 4.8W 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 industrial EMS

##### Power protection

- Provide overload protection
- Provide reverse connection protection
- Provide multiple power input options, AC or DC or HV

#### Ordering Information

Model Name	Description
405FX	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
405FX-SC	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, SC style connector) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
405FX-ST	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, ST style connector) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C

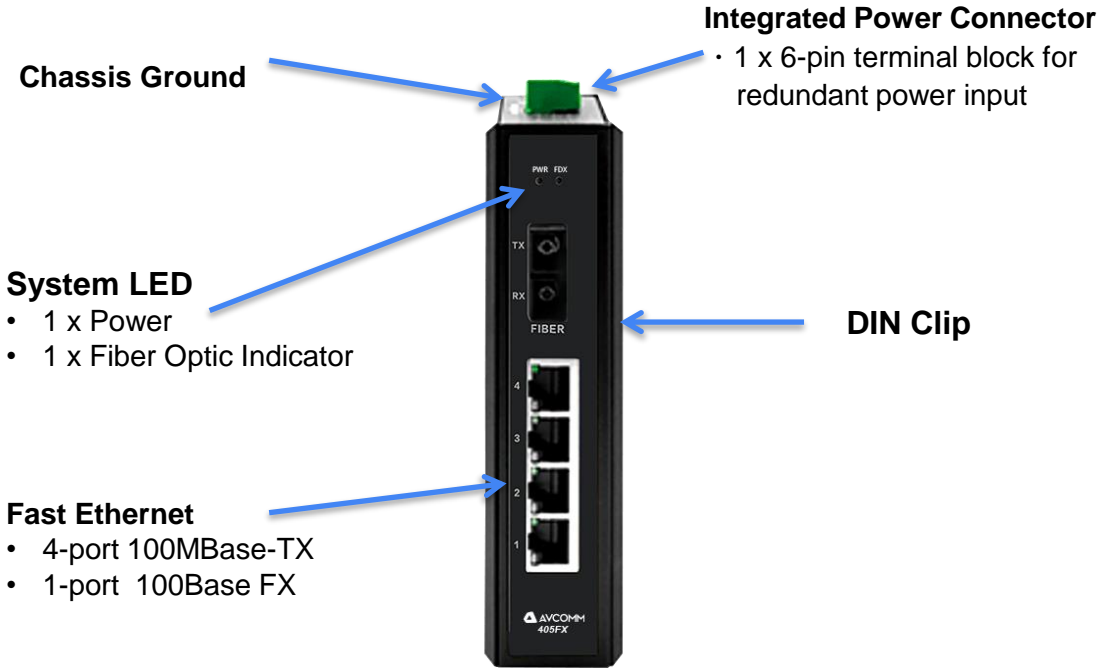
## Ordering Information

Model Name	Description
405FXE-SC-15	5-Port Industrial Unmanaged Ethernet Switch, 5 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 15Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
405FXE-ST-15	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
405FXE-SC-40	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 40Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
405FXE-ST-40	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 40Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
405FXE-SC-100	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 100Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
405FXE-ST-100	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 100Km) , DIN-Rail, Single Power Input 10-50VDC, -40°C to +85°C
405FX-SC-AC	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
405FX-ST-AC	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
405FXE-SC-15-AC	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 15Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
405FXE-ST-15-AC	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
405FXE-SC-40-AC	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 40Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
405FXE-ST-40-AC	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 40Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
405FXE-SC-100-AC	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 100Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
405FXE-ST-100-AC	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 100Km) , DIN-Rail, Dual Power Input 90-264VAC, -40°C to +85°C
405FX-SC-HV	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, SC style connector) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
405FX-ST-HV	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Multimode, ST style connector) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
405FXE-SC-15-HV	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, SC style connector, 15Km) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
405FXE-ST-15-HV	5-Port Industrial Unmanaged Ethernet Switch, 4 RJ45 10/100BaseT(X), 1 100BaseFX (Singlemode, ST style connector, 15Km) , DIN-Rail, Dual Power Input 90-264VDC, -40°C to +85°C
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 Specifications

Technology	
Standard	IEEE802.3, IEEE802.3u, IEEE802.3x
Switch Technology	Store and Forwarding Technology with non-blocking
Number of MAC Address	1K
Packet Buffer Memory	0.5 MB
Backplane bandwidth	1.2 Gbps
Forwarding rate	148810pps
Interface	
Ethernet Port	4 x 10/100BaseT(x)RJ-45 , 1 x 100Base FX, Auto Negotiation
System LED	1 x Power: Green On ; 1 x Fiber Optic Indicator: Green On
Ethernet Port LED	Link (Green On), Active (Green Blinking)
Power Input	3-Pin Removable Terminal Connector for DC version 6-Pin Removable Terminal Connector for AC & HVDC version
Power Requirement	
Input Voltage	12/24/48VDC (10~50VDC) 110/220VAC(90~264VAC) or 110/220VDC(90~264VDC) , Redundant
Reverse Polarity Protect	Yes
Power Consumption	200mA@24V 10 W
Mechanical	
Enclosure Material	Metal
Dimension	37 mm x 150 mm x 100 mm (W x H x D) without DIN Rail Clip for DC version 47.6 mm x 150 mm x 100 mm (W x H x D) without DIN Rail Clip for AC & HVDC version
Ingress Protection	IP40
Weight	850 g for DC version 650 g for AC & HVDC version
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 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)

## Function interface



## Installation dimensions

