



**MES-205: 5FE Unmanaged Industrial Ethernet Switch**

**Dimensions: 116 \* 85 \* 33 mm**

### Overview

MES-205 is a compact 5-port industrial-grade Ethernet switch, which supports 1\*10/100Base-TX uplink copper port & 4\*10/100Base-TX downlink copper ports. The switch supports Ethernet Layer 2 protocols required for industrial sites to ensure communication network stability. This series of switches adopts low-power, fanless design to ensure no noise interference, IP40 protection level, supports -20~+75°C working temperature and good EMC electromagnetic compatibility performance. This series of switches has been widely used in industrial automation, intelligent transportation, video surveillance, smart street lights, smart water affairs and other fields. It provides a safe and reliable solution for building a fast and stable network and is one of the preferred brands in the industry.

### Characteristics

- Support 5\*10/100M self-adaptive RJ45 copper ports
- Ensure reliable data transmission and long life span
- Supports full-duplex or half-duplex mode, with automatic negotiation capability
- The network port supports fully automatic cross identification
- Supports storage and forwarding mechanism, support multiple protocols
- In line with the industrial-grade operating standards, MTTF is more than 300,000 hours
- Operating voltage: DC12~52V, with polarity reverse protection

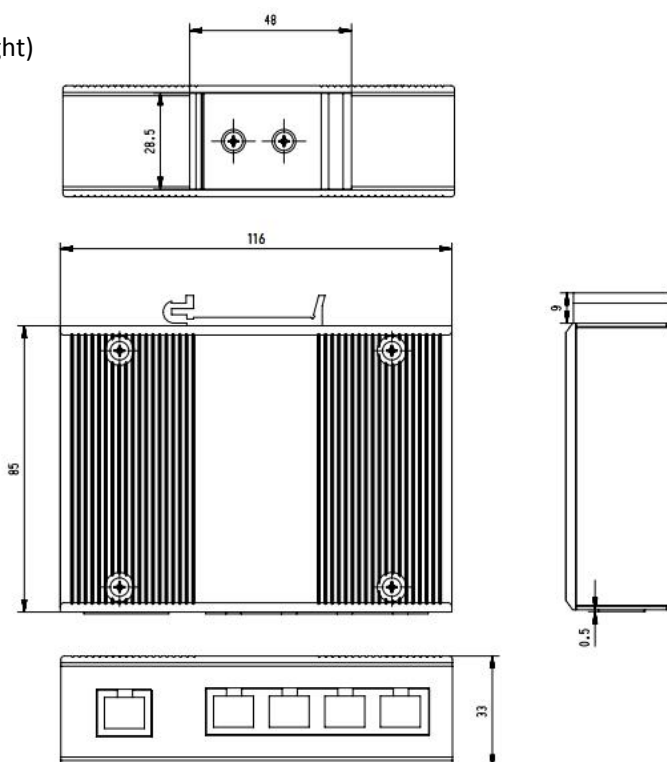
### Specification

Ethernet Standards	IEEE 802.3: 10Base-T Ethernet IEEE 802.3u: 100Base-TX Ethernet IEEE802.3x: Flow control
Service Ports	Copper ports: 5 * 10 / 100Base-T (X), adaptive RJ 45 ports, full-duplex / half-duplex adaptive working mode, support MDI / MDI-X adaptation Power interface: DC dual power interface (6-core 5.08mm spacing wiring terminal)
Transmission Distance	Twisted pair: 10 BASE-T: Cat3,4,5 UTP cable ( $\leq 250$ m) 100 BASE-T (X): Cat5 or later UTP cables ( $\leq 100$ m)
Switching Property	Switch Backplane Bandwidth: 1.0G (no blocking) Transmission mode: store-and-forward (full-line speed) Package forwarding rate: 1.48Mpps MAC address table: 1K Cache: 1.0 Mbit frame cache Latency: $<10\mu s$
LED Indicator	Power indicator: PWR (green light), interface indicator is as follows: Copper ports: yellow light on for Link / Act, yellow light off link-off status; The yellow light is on and flashing as the port link-up status, sending and receiving data; The green light is 100M rate; the green light is not on: 10M rate.
Industrial Standard	EMI : FCC Part 15 Subpart B Class A , EN 55022 Class A EMS : IEC (EN) 61000-4-2 (ESD): $\pm 8$ kV contact discharge, $\pm 12$ kV air discharge IEC(EN)61000-4-3(RS) : 10V/m(80 ~ 1000MHz) IEC (EN) 61000-4-4 (EFT): network port: $\pm 4$ kVCM / / $\pm 2$ kV DM; IEC (EN) 61000-4-5 (Surge): $\pm 4$ kVCM / / $\pm 2$ kV DM; IEC (EN) 61000-4-6 (RF conduction): 3V (10 kHz ~ 150 kHz), 10V (150 kHz ~ 80 MHz) IEC (EN) 61000-4-16 (Common-mode conduction): 30V cont.300V,1s IEC(EN )61000-4-8 Shock : IEC 60068-2-27 Freefall : IEC 60068-2-32 Vibration : IEC 60068-2-6
Power Supply Voltage	Terminal: Phoenix terminal (6-core 5.08mm spacing) Input voltage: 12 ~ 52 VDC Standby power consumption: $<1$ W; full-load power consumption of the system: $<3$ W Power supply supports dual power supply redundancy Support for built-in overcurrent 4.0A protection Power supply supports polarity reverse protection

Work Environment	Operating temperature range: -20~+75℃ Storage temperature range: -40~+85℃ Working humidity: 5%~95% (no condensation)
Weight	Net weight/gross weight: 0.35 Kg
Mechanical Properties	Housing: IP40 protection grade, metal shell Installation: DIN rail type, wall-mounted installation Heat dissipation mode: natural cooling, fan-less
Size	(L*W*H) : 116*85*33mm

### Appearance and Size

116(Length) x 85(Width) x 33mm(Height)



### Ordering Information

Item	Description
MES-205	5FE Unmanaged Industrial Ethernet Switch, 5*10/100M copper ports, working temperature -20~ + 75℃, DIN rail industrial grade, IP40, DC12~52V power supply, Size 116×85×33mm