EtherDevice™ Switch
EDS-205

Industrial 5-Port Unmanaged Ethernet Switch

Features

High Performance Network Switching Technology
- **10/100BaseT(X) (RJ45)**
- **Broadcast Storm Protection**
- **Support IEEE 802.3/ 802.3u/ 802.3x**
- **Store and Forward switching process type, 1024 address entries**
- **10/100M, Full/Half-Duplex, MDI/MDI-X auto-sensing**

Industrial Rugged Design
- **Operating temperature ranges from –10 to 60oC**
- **Case design meet IP 30 protection standard**
- **Power inputs support DC 12 to 48 V; or AC 18 to 30 V (47~63 Hz)**
- **DIN-Rail mounting ability**

Recommended Accessories
- **DR Series DIN-Rail 24 VDC Power Supplies**

Overview

The EDS-205 EtherDevice™ Switch is an entry-level industrial 5-port Ethernet switch that supports IEEE 802.3/802.3u/ 802.3x with 10/100M, full/half-duplex, MDI/MDIX auto-sensing RJ45 ports. The EDS-205 is rated to operate at temperatures ranging from -10 to 60oC that is rugged enough for any harsh industrial environment. EDS-205 can be easily installed with DIN-rail mounting as well as distribution boxes. The DIN-rail mounting ability, wide operating temperature, and the the IP30 case with LED indicators make EDS-205 EtherDevice™ Switch a ready plug-and-play yet reliable solution for your Industrial Ethernet connection.

DC- or AC- Power Input Options

With EDS-205 EtherDevice™ Switch, you can choose either DC power input from 12V to 48V, or AC power input from 18V to 30V. The AC-24V power input is especially designed for applications in the building automation field where the source of power input is often restricted. EDS-205 EtherDevice™ Switch is a low-cost versatile solution for all industrial applications.

Broadcast Storm Protection

EDS-205 protects itself from receiving too many broadcast packets. During normal use, broadcast packets will be forwarded to all ports except the source port. However, EDS-205 will discard broadcast or multicast packets if the number of those packets exceeds a threshold in a preset period of time. When the preset period expires, it will then resume receiving broadcast or multicast packets until the threshold is reached again.

Specifications

Technology

Standards: IEEE802.3, 802.3u, 802.3x

Processing Type: Store and Forward, with IEEE802.3x full duplex, non-blocking flow control

Flow Control: IEEE802.3x flow control, back pressure flow control

Address Table Size: 1K uni-cast addresses

Interface

RJ45 Ports: 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection

LED Indicators: Power, 10/100M

Power

Input Voltage: 12 to 48 VDC, or 18 to 30 VAC, 47 ~63 Hz

Input Current :

12 to 48 VDC, 5 W

18 to 30 VAC, 5 VA, 47 ~63 Hz

Connection: Removable 3-contact Terminal Block

Reverse Polarity Protection: Present

Overload Current Protection: 1.1 A

Reverse Polarity Protection: Present

Mechanical

Casing: IP30 protection, plastic case

Dimensions: 25 x 109 x 88 mm (W x H x D)

Weight: 135 g

Installation: DIN-Rail

Environment

Operating Temperature: -10 to 60°C (14 to 140°F)

Storage Temperature: -40 to 70°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Regulatory Approvals

Safety: UL 508 (Pending)

EMI: FCC Part 15, CISPR (EN55022) class A

EMS:

EN61000-4-2 (ESD)

EN61000-4-3 (RS)

EN61000-4-4 (EFT)

EN61000-4-5 (Surge)
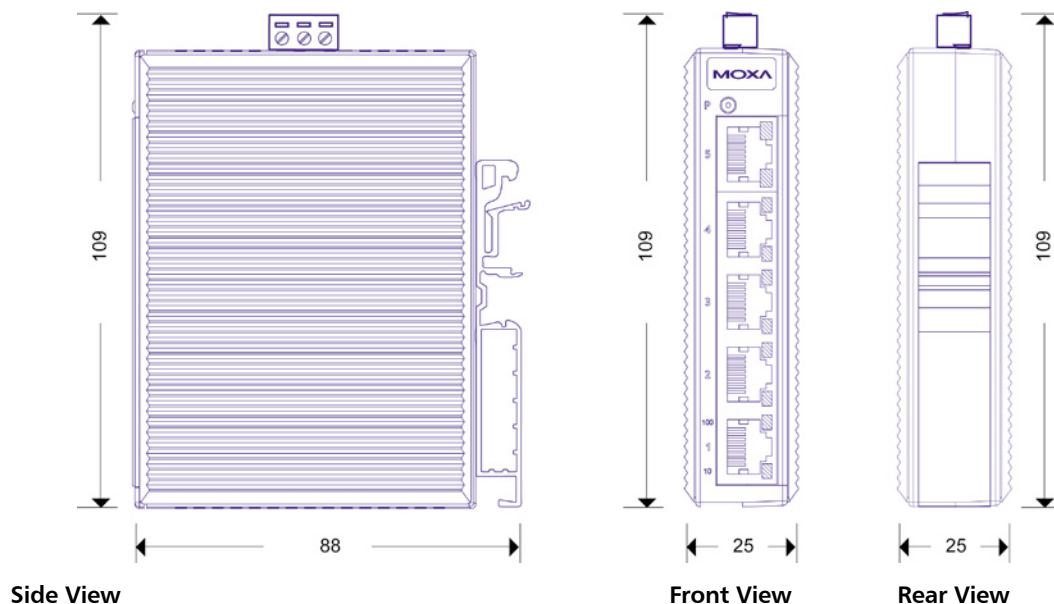
EN61000-4-6 (CS)

Shock: IEC60068-2-27 (Pending)

Free Fall: IEC60068-2-32

Vibration: IEC60068-2-6

MTBF: IEC 60068-2-6 (Pending)

WARRANTY: 5 years

Dimensions (unit = mm)

Side View

Front View   Rear View

Ordering Information

EDS-205: Industrial Ethernet Switch with 5-port 10/100BaseT(X); Operating Temp.: -10 to 60°C

Optional Accessories

DR-4524: 45W/2A DIN-Rail 24 VDC Power Supply with universal 85 to 264 VAC input

DR-75-24: 75W/3.2A DIN-Rail 24 VDC Power Supply with universal 85 to 264 VAC input

DR-120-24: 120W/5A DIN-Rail 24 VDC Power Supply with 88 to 132 VAC/176 to 264 VAC input by switch