

EDS-2005-EL Series

Allied Automation, Inc.

800-214-0322

www.allied-automation.com

5-port entry-level unmanaged Ethernet switches



Features and Benefits

- 10/100BaseT(X) (RJ45 connector)
- Compact size for easy installation
- QoS supported to process critical data in heavy traffic
- IP40-rated metal housing
- -40 to 75°C wide operating temperature range (-T models)

Certifications



Introduction

The EDS-2005-EL series of industrial Ethernet switches have five 10/100M copper ports, which are ideal for applications that require simple industrial Ethernet connections. Moreover, to provide greater versatility for use with applications from different industries, the EDS-2005-EL Series 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, the EDS-2005-EL Series has a rugged metal housing to ensure suitability for use in industrial environments.

The EDS-2005-EL Series has a 12/24/48 VDC single power input, DIN-rail mounting, and high-level EMI/EMC capabilities. In addition to its compact size, the EDS-2005-EL Series has passed a 100% burn-in test to ensure it will function reliably after it has been deployed. The EDS-2005-EL Series has a standard operating temperature range of -10 to 60°C with wide-temperature (-40 to 75°C) models also available.

Specifications

Ethernet Interface

| | |
|---------------------------------------|---|
| 10/100BaseT(X) Ports (RJ45 connector) | 5 Full/Half duplex mode Auto MDI/MDI-X connection Auto negotiation speed |
| Standards | IEEE 802.3 for 10BaseT IEEE 802.1p for Class of Service IEEE 802.3u for 100BaseT(X) IEEE 802.3x for flow control |

Switch Properties

| | |
|--------------------|-------------------|
| Processing Type | Store and Forward |
| MAC Table Size | 8 K |
| Packet Buffer Size | 4 Mbits |

DIP Switch Configuration

| | |
|--------------------|--|
| Ethernet Interface | Quality of Service (QoS), Broadcast Storm Protection (BSP) |
|--------------------|--|

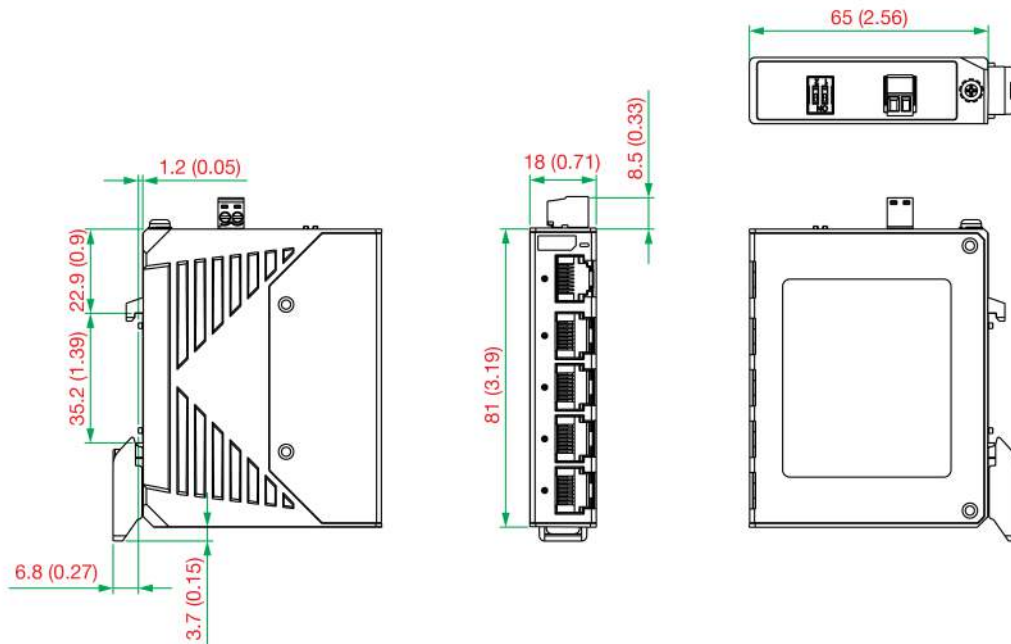
Power Parameters

| | |
|---------------|---|
| Connection | 1 removable 2-contact terminal block(s) |
| Input Current | 0.045 A @ 24 VDC |

| | |
|--|--|
| Input Voltage | 12/24/48 VDC |
| Operating Voltage | 9.6 to 60 VDC |
| Overload Current Protection | Supported |
| Reverse Polarity Protection | Supported |
| Physical Characteristics | |
| Dimensions | 18 x 81 x 65 mm (0.7 x 3.19 x 2.56 in) |
| Installation | DIN-rail mounting, Wall mounting (with optional kit) |
| Weight | 105 g (0.23 lb) |
| Housing | Metal |
| Environmental Limits | |
| Ambient Relative Humidity | 5 to 95% (non-condensing) |
| Operating Temperature | EDS-2005-EL: -10 to 60°C (14 to 140°F) EDS-2005-EL-T: -40 to 75°C (-40 to 167°F) |
| Storage Temperature (package included) | -40 to 85°C (-40 to 185°F) |
| Standards and Certifications | |
| Safety | UL 61010-2-201, EN 62368-1 (LVD) |
| EMC | EN 55032/35 |
| EMI | CISPR 22, 32, FCC Part 15B Class A |
| EMS | IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF |
| Shock | IEC 60068-2-27 |
| Vibration | IEC 60068-2-6 |
| Freefall | IEC 60068-2-32 |
| MTBF | |
| Time | 4,814,369 hrs |
| Standards | Telcordia (Bellcore), GB |
| Warranty | |
| Warranty Period | 5 years |
| Details | See www.moxa.com/warranty |
| Package Contents | |
| Device | 1 x EDS-2005 Series switch |
| Documentation | 1 x quick installation guide 1 x warranty card |

Dimensions

Unit: mm (inch)



Ordering Information

| Model Name | 10/100BaseT(X) Ports (RJ45 connector) | Operating Temperature |
|---------------|---------------------------------------|-----------------------|
| EDS-2005-EL | 5 | -10 to 60°C |
| EDS-2005-EL-T | 5 | -40 to 75°C |

Accessories (sold separately)

Power Supplies

| | |
|-----------|---|
| DR-120-24 | 120W/2.5A DIN-rail 24 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, or 248 to 370 VDC input, -10 to 60°C operating temperature |
| DR-4524 | 45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50°C operating temperature |
| DR-75-24 | 75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 60°C operating temperature |
| MDR-40-24 | DIN-rail 24 VDC power supply with 40W/1.7A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature |
| MDR-60-24 | DIN-rail 24 VDC power supply with 60W/2.5A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature |

Wall-Mounting Kits

| | |
|-------|---|
| WK-18 | Wall-mounting kit, 1 plate, 18 x 120 x 8.5 mm |
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Rack-Mounting Kits

| | |
|-------|---------------------------|
| RK-4U | 19-inch rack-mounting kit |
|-------|---------------------------|

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