

EDS-P206A-4PoE Series

6-port IEEE 802.3af/at PoE+ unmanaged Ethernet switches



- > IEEE 802.3af/at compliant PoE and Ethernet combo ports
- > Up to 30 watts per PoE port
- > 24/48 VDC wide range redundant power inputs
- > Intelligent power consumption detection and classification
- > Redundant dual VDC power inputs
- > -40 to 75°C operating temperature range (T models)



Introduction

The EDS-P206A-4PoE switches are smart, 6-port, unmanaged Ethernet switches supporting PoE (Power-over-Ethernet) on ports 1 to 4. The switches are classified as power source equipment (PSE), and when used in this way, the EDS-P206A-4PoE switches enable centralization of the power supply and provide up to 30 watts of power per port. The

switches can be used to power IEEE 802.3af/at compliant powered devices (PD), eliminating the need for additional wiring, and support IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDI-X auto-sensing to provide an economical solution for your industrial Ethernet network.

Specifications

Technology

Standards:

- IEEE 802.3af/at for Power-over-Ethernet
- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseT(X)
- IEEE 802.3x for Flow Control

Processing Type: Store and Forward

Flow Control: IEEE 802.3x flow control, back pressure flow control

Switch Properties

MAC Table Size: 1 K

Packet Buffer Size: 512 KB

Interface

Fiber Ports: 100BaseFX ports (SC/ST connector)

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

PoE Pinout: V-, V-, V+, V+ for pin 1, 2, 3, 6 (Endspan, MDI-X Alternative A)

LED Indicators: PWR1, PWR2, 10/100M, PoE

Optical Fiber

| | 100BaseFX | |
|------------------|--|--------------------|
| | Multi-mode | Single-mode |
| Wavelength | 1300 nm | 1310 nm |
| Max. TX | -10 dBm | 0 dBm |
| Min. TX | -20 dBm | -5 dBm |
| RX Sensitivity | -32 dBm | -34 dBm |
| Link Budget | 12 dB | 29 dB |
| Typical Distance | 5 km ^a 4 km ^b | 40 km ^c |
| Saturation | -6 dBm | -3 dBm |

- a. 50/125 μm, 800 MHz*km fiber optic cable
- b. 62.5/125 μm, 500 MHz*km fiber optic cable
- c. 9/125 μm single-mode fiber optic cable

Power Requirements

Input Voltage: 24/48 (20 to 60 V) VDC, redundant inputs

Input Current: Max 7.5 A @ 24 VDC (supports up to 4 ports at 30 watts per PoE port)

Overload Current Protection: Present

Connection: 1 removable 4-contact terminal block

Reverse Polarity Protection: Present

Physical Characteristics

Housing: Metal, IP30 protection

Dimensions: 50.3 × 115 × 70 mm (1.98 x 4.53 x 2.76 in)

Weight: 375 g

Installation: DIN-Rail mounting, wall mounting (with optional kit)

Environmental Limits

Operating Temperature:

Standard Models: 0 to 60°C (32 to 140°F)

Wide Temp. Models: -40 to 75°C (-40 to 167°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

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

Standards and Certifications

Safety: UL 69050-1, UL 508

EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A

EMS:

EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Note: Please check Moxa's website for the most up-to-date certification status.

MTBF (mean time between failures)

Time: 645,138 hrs

Database: Telcordia (Bellcore), GB

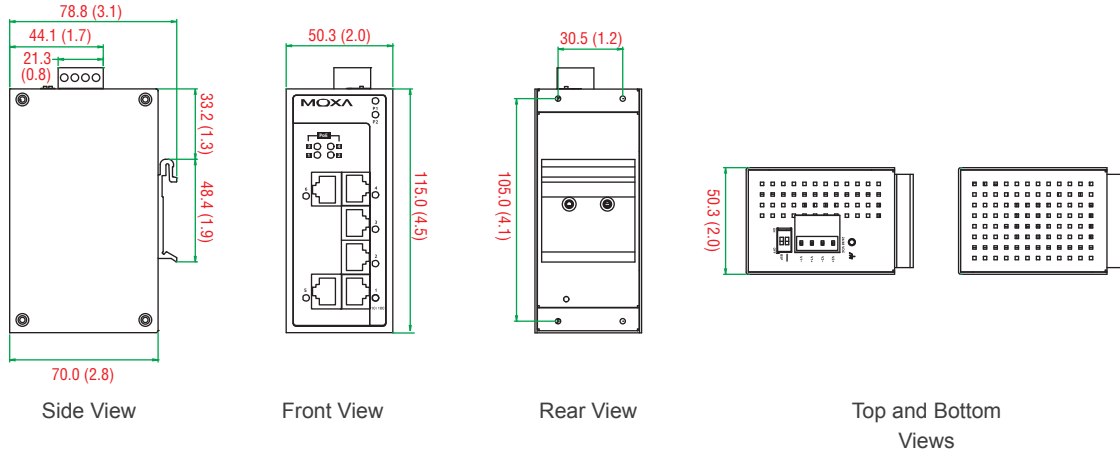
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Ordering Information

| Available Models | | Port Interface | | | |
|-------------------------------------|-----------------------------------|----------------|------------------------------|------------------------------|------------------------------|
| Standard Temperature (0 to 60°C) | Wide Temperature (-40 to 75°C) | 10/100BaseT(X) | 100BaseFX | | |
| | | | Multit-mode, SC Connector | Multit-mode, ST Connector | Single-mode, SC Connector |
| EDS-P206A-4PoE | EDS-P206A-4PoE-T | 6 | - | - | - |
| EDS-P206A-4PoE-M-SC | EDS-P206A-4PoE-M-SC-T | 5 | 1 | - | - |
| EDS-P206A-4PoE-M-ST | EDS-P206A-4PoE-M-ST-T | 5 | - | 1 | - |
| EDS-P206A-4PoE-MM-SC | EDS-P206A-4PoE-MM-SC-T | 4 | 2 | - | - |
| EDS-P206A-4PoE-MM-ST | EDS-P206A-4PoE-MM-ST-T | 4 | - | 2 | - |
| EDS-P206A-4PoE-S-SC | EDS-P206A-4PoE-S-SC-T | 5 | - | - | 1 |
| EDS-P206A-4PoE-SS-SC | EDS-P206A-4PoE-SS-SC-T | 4 | - | - | 2 |

Optional Accessories (can be purchased separately)

DR-75-24/120-24: 75/120 W DIN-Rail 24 VDC power supplies

DR-75-48/120-48: 75/120 W DIN-Rail 48 VDC power supplies

DRP-240-48: 240 W DIN-Rail 48 VDC power supplies

WK-46: Wall mounting kit

RK-4U: 4U-high 19" rack mounting kit

Package Checklist

- EDS-P206A-4PoE switch
- Protective caps for unused ports
- Hardware installation guide (printed)
- Warranty card