EDS-P206A-4PoE Series

6-port unmanaged Ethernet switches with 4 IEEE 802.3af/at PoE+ ports





- > 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

Switch Properties MAC Table Size: 1 K Packet Buffer Size: 512 KB

RJ45 Ports: 10/100BaseT(X) auto negotiation speed, Full/Half duplex

mode, and auto MDI/MDI-X connection Fiber Ports: 100BaseFX ports (SC/ST connector)

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

Alternative A) **Optical Fiber**

		100BaseFX				
		Multi-Mode		Single-Mode		
Fiber Cable Type		OM1	50/125 μm	G.652		
			800 MHz*km			
Typical Distance		4 km	5 km	40 km		
Wave- length	Typical (nm)	1300		1310		
	TX Range (nm)	1260 to 1360		1280 to 1340		
	RX Range (nm)	1100 to 1600		1100 to 1600		
Optical Power	TX Range (dBm)	-10 to -20		0 to -5		
	RX Range (dBm)	-3 to -32		-3 to -34		
	Link Budget (dB)	12		29		
	Dispersion Penalty (dB)	3		1		

Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power. Note: Compute the "typical distance" of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB)

Power Requirements

Input Voltage: 24/48 VDC, redundant dual inputs

Operating Voltage: 22 to 57 VDC Input Current: 5.48 A @ 24 VDC **Overload Current Protection: Present**

Connection: 1 removable 4-contact terminal block

Reverse Polarity Protection: Present

Power Consumption: Max. 11.52 W full loading without PDs'

consumption

Power Budget: Max. 120 W for total PDs' consumption

Max. 30 W for each PoE port **Physical Characteristics**

Housing: Metal

IP Rating: IP30 protection

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

Weight: 375 g (0.83 lb)

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 508 EMC: EN 55022/24

EMI: CISPR 22, FCC Part 15B Class A

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: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV

IEC 61000-4-6 CS: Signal: 10 V

IEC 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)

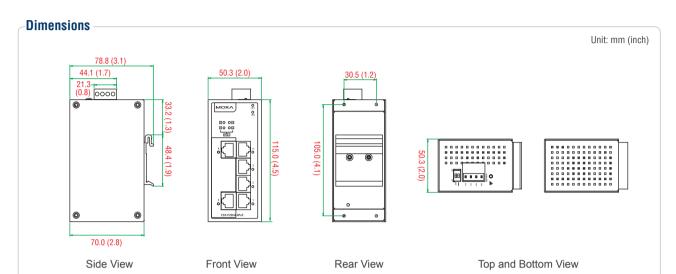
Time: 645,138 hrs

Standard: Telcordia (Bellcore), GB

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty



Constraint 1

Availab	Port Interface				
Standard Temperature	Wide Temperature (-40 to 75°C)	10/100BaseT(X)	100BaseFX		
(O to 60°C)			Mulit-Mode,	Mulit-Mode,	Single-Mode,
(0 10 00 0)			SC Connector	ST Connector	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 **RK-4U:** 4U-high 19-inch rack-mounting kit **WK-46:** Wall-mounting kit, 2 plates with 8 screws

Package Checklist

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