

EDS-205A 系列

5 埠輕巧型非網管型乙太網路交換器



特色與優點

- 10/100BaseT(X) (RJ45 連接器)、100BaseFX (多模/單模、SC 或 ST 連接器)
- 備援雙 12/24/48 VDC 電源輸入
- IP30 鋁製外殼
- 堅固耐用的硬體設計，非常適合環境嚴苛場域應用 (Class 1 Div. 2/ATEX Zone 2)、運輸應用 (NEMA TS2/EN 50121-4) 以及海事環境 (DNV/GL/LR/ABS/NK)
- -40 至 75°C 工作溫度範圍 (-T 型號)

認證



簡介

EDS-205A 系列 5 埠工業級乙太網路交換器支援 IEEE 802.3 和 IEEE 802.3u/x，具有 10/100M、全/半雙工、MDI/MDI-X 自動感測功能。EDS-205A 系列具有 12/24/48 VDC (9.6 至 60 VDC) 備援電源輸入，可同時連接至直流電源。此系列交換器專為嚴苛工業環境所設計，例如海事 (DNV/GL/LR/ABS/NK)、軌道沿線、高速公路或行動應用 (EN 50121-4/NEMA TS2/e-Mark)，或危險場所 (Class I Div. 2, ATEX Zone 2)，並且符合 FCC、UL 和 CE 標準。

EDS-205A 交換器提供可運作於 -10 至 60°C 的標準溫度型號和運作於 -40 至 75°C 的寬溫型號，所有型號都經過 100% 的燒機測試，確保符合工業自動化控制應用的特殊需求。此外，EDS-205A 交換器具有 DIP 開關，用於啟用或停用廣播風暴保護功能，提高工業應用的靈活性。

規格

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	EDS-205A/205A-T: 5 EDS-205A-M-SC/M-ST/S-SC Series: 4 All models support: Auto negotiation speed Full/half duplex mode Auto MDI/MDI-X connection																					
100BaseFX Ports (multi-mode SC connector)	EDS-205A-M-SC Series: 1																					
100BaseFX Ports (multi-mode ST connector)	EDS-205A-M-ST Series: 1																					
100BaseFX Ports (single-mode SC connector)	EDS-205A-S-SC Series: 1																					
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for flow control																					
Optical Fiber	<table><thead><tr><th colspan="2"></th><th colspan="2">100BaseFX</th></tr><tr><th colspan="2"></th><th>Multi-Mode</th><th>Single-Mode</th></tr></thead><tbody><tr><th rowspan="2">Fiber Cable Type</th><th rowspan="2">OM1</th><td>50/125 μm</td><td rowspan="2">G.652</td></tr><tr><td>800 MHz x km</td></tr><tr><th colspan="2">Typical Distance</th><td>4 km</td><td>40 km</td></tr><tr><th>Wavelength</th><th>Typical (nm)</th><td colspan="2">1300</td></tr></tbody></table>			100BaseFX				Multi-Mode	Single-Mode	Fiber Cable Type	OM1	50/125 μ m	G.652	800 MHz x km	Typical Distance		4 km	40 km	Wavelength	Typical (nm)	1300	
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		100BaseFX		
		Multi-Mode		Single-Mode
		Fiber Cable Type	OM1	50/125 μ m
	800 MHz x km			
	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
<p>Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power.</p> <p>Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).</p>				

Switch Properties

MAC Table Size	1 K
Packet Buffer Size	384 kbits
Processing Type	Store and Forward

Power Parameters

Connection	1 removable 4-contact terminal block(s)
Input Current	EDS-205A/205A-T: 0.09 A @ 24 VDC EDS-205A-M-SC/M-ST/S-SC Series: 0.1 A @ 24 VDC
Input Voltage	12/24/48 VDC, Redundant dual inputs
Operating Voltage	9.6 to 60 VDC
Overload Current Protection	Supported
Reverse Polarity Protection	Supported

DIP Switch Configuration

Ethernet Interface	Broadcast storm protection
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Physical Characteristics

Housing	Aluminum
IP Rating	IP30
Dimensions	30 x 115 x 70 mm (1.18 x 4.52 x 2.76 in)
Weight	175 g (0.39 lb)
Installation	DIN-rail mounting, Wall mounting (with optional kit)

Environmental Limits

Operating Temperature	Standard Models: -10 to 60°C (14 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	EN 55032/24
EMI	CISPR 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: 10 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: 10 V IEC 61000-4-8 PFMF
Hazardous Locations	IECEx, ATEX, Class I Division 2
Maritime	ABS, DNV-GL, LR, NK
Railway	EN 50121-4
Safety	UL 508
Shock	IEC 60068-2-27
Traffic Control	NEMA TS2
Vibration	IEC 60068-2-6
Freefall	IEC 60068-2-31

MTBF

Time	3,040,784 hrs
Standards	Telcordia (Bellcore), GB

Warranty

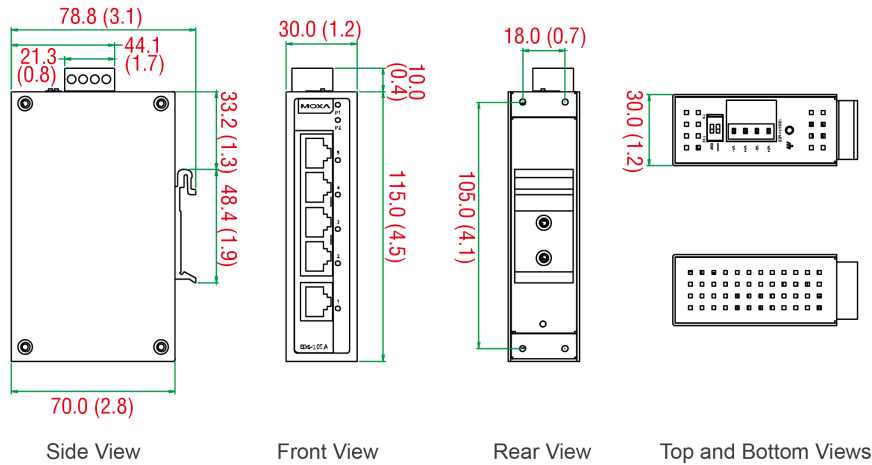
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x EDS-205A Series switch
Documentation	1 x quick installation guide 1 x warranty card

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	10/100BaseT(X) Ports RJ45 Connector	100BaseFX Ports Multi-Mode, SC Connector	100BaseFX Ports Multi-Mode, ST Connector	100BaseFX Ports Single-Mode, SC Connector	Operating Temp.
EDS-205A	5	-	-	-	-10 to 60°C
EDS-205A-T	5	-	-	-	-40 to 75°C
EDS-205A-M-SC	4	1	-	-	-10 to 60°C
EDS-205A-M-SC-T	4	1	-	-	-40 to 75°C
EDS-205A-M-ST	4	-	1	-	-10 to 60°C
EDS-205A-M-ST-T	4	-	1	-	-40 to 75°C
EDS-205A-S-SC	4	-	-	1	-10 to 60°C
EDS-205A-S-SC-T	4	-	-	1	-40 to 75°C

配件（選購）

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-30	Wall-mounting kit, 2 plates, 4 screws, 30 x 66.8 x 2 mm
WK-46	Wall-mounting kit, 2 plates, 8 screws, 46.5 x 66.8 x 1 mm

Rack-Mounting Kits

RK-4U	19-inch rack-mounting kit
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