

# EDS-305 系列

## 5 埠非網管型乙太網路交換器



### 特色與優點

- 發生電源故障和通訊埠連結中斷時可透過繼電器輸出警告
- 廣播風暴保護
- -40 至 75°C 工作溫度範圍 (-T 型號)

### 認證



### 簡介

EDS-305 乙太網路交換器可為工業乙太網路連線提供經濟實惠的解決方案。此系列 5 埠交換器具有內建繼電器警告功能，可在發生電源故障或連接埠中斷時警告網路工程師。此外，此系列交換器專為嚴苛的工業環境所設計，例如由 Class 1 Div. 2 and ATEX Zone 2 標準定義的危險場所等。

此系列交換器符合 FCC、UL 和 CE 標準，支援 0 至 60°C 的標準工作溫度範圍，或介於 -40 至 75°C 的寬工作溫度範圍；此系列中的所有交換器都經過 100% 燒機測試，確保符合工業自動化控制應用的特殊需求。EDS-305 交換器可輕鬆安裝在 DIN 軌道或配接箱中。

### 規格

#### Input/Output Interface

Alarm Contact Channels	1 relay output with current carrying capacity of 1 A @ 24 VDC
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#### Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	EDS-305/305-T: 5 EDS-305-M-SC/M-ST/S-SC Series, EDS-305-S-SC-80: 4  All models support: Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection
100BaseFX Ports (multi-mode SC connector)	EDS-305-M-SC Series: 1
100BaseFX Ports (multi-mode ST connector)	EDS-305-M-ST Series: 1
100BaseFX Ports (single-mode SC connector)	EDS-305-S-SC: 1 EDS-305-S-SC-T: 1
100BaseFX Ports (single-mode SC connector, 80 km)	EDS-305-S-SC-80: 1

Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for flow control					
Optical Fiber			100BaseFX			
			Multi-Mode	Single-Mode (40 km)	Single-Mode (80 km)	
	Fiber Cable Type	OM1	50/125 $\mu$ m	G.652	G.652	
			800 MHz x km			
	Typical Distance		4 km	5 km	40 km	80 km
	Wavelength	Typical (nm)	1300		1310	1550
		TX Range (nm)	1260 to 1360		1280 to 1340	1530 to 1570
		RX Range (nm)	1100 to 1600		1100 to 1600	1100 to 1600
	Optical Power	TX Range (dBm)	-10 to -20		0 to -5	0 to -5
		RX Range (dBm)	-3 to -32		-3 to -34	-3 to -34
		Link Budget (dB)	12		29	29
Dispersion Penalty (dB)		3		1	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) &gt; dispersion penalty (dB) + total link loss (dB).</p>						

#### DIP Switch Configuration

Ethernet Interface	Port break alarm
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#### Switch Properties

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

#### Power Parameters

Input Current	EDS-305/305-T: 0.11 A @ 24 VDC EDS-305-M/S Series: 0.15 A @ 24 VDC
Connection	1 removable 6-contact terminal block(s)
Operating Voltage	12 to 48 VDC
Input Voltage	24 VDC, Redundant dual inputs
Reverse Polarity Protection	Supported
Overload Current Protection	Supported

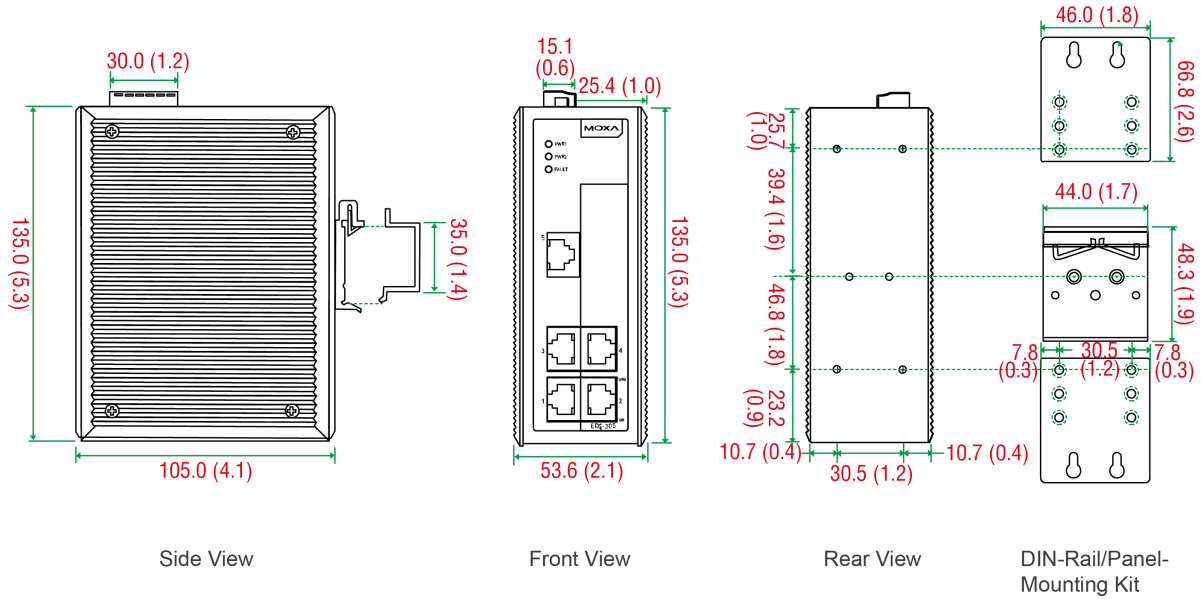
#### Physical Characteristics

Housing	Metal
IP Rating	IP30
Dimensions	53.6 x 135 x 105 mm (2.11 x 5.31 x 4.13 in)

Weight	790 g (1.75 lb)
Installation	DIN-rail mounting, Wall mounting (with optional kit)
<b>Environmental Limits</b>	
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 (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
<b>Standards and Certifications</b>	
Hazardous Locations	ATEX, Class I Division 2
EMI	CISPR 32, FCC Part 15B Class A
Maritime	DNV-GL
EMC	EN 55032/24
Vibration	IEC 60068-2-6
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 MHz: 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: 3 V IEC 61000-4-8 PFMF
Safety	UL 508, UL 60950-1, CSA C22.2 No. 60950-1
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
<b>MTBF</b>	
Time	422,742 hrs
Standards	MIL-HDBK-217F
<b>Warranty</b>	
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a>
<b>Package Contents</b>	
Device	1 x EDS-305 Series switch
Installation Kit	2 x cap, plastic, for RJ45 port 1 x cap, plastic, for SC fiber port (-SC models) 1 x cap, plastic, for ST fiber port (-ST models)
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-305	5	-	-	-	0 to 60°C
EDS-305-T	5	-	-	-	-40 to 75°C
EDS-305-M-SC	4	1	-	-	0 to 60°C
EDS-305-M-SC-T	4	1	-	-	-40 to 75°C
EDS-305-M-ST	4	-	1	-	0 to 60°C
EDS-305-M-ST-T	4	-	1	-	-40 to 75°C
EDS-305-S-SC	4	-	-	1	0 to 60°C
EDS-305-S-SC-80	4	-	-	1	0 to 60°C
EDS-305-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-46	Wall-mounting kit, 2 plates, 8 screws, 46.5 x 66.8 x 1 mm
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## Rack-Mounting Kits

RK-4U

19-inch rack-mounting kit

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