

# EDS-305シリーズ

## 5ポートアンマネージドイーサネットスイッチ



### 機能とメリット

- 電源障害およびポート切断アラームのためのリレー出力警告
- ブロードキャストストーム防止
- -40~75°Cの広い動作温度範囲 (-Tモデル)

### 認証



### 製品紹介

EDS-305イーサネットスイッチは、産業用イーサネット接続向けに経済的なソリューションを提供します。これらの5ポートスイッチには、電源障害やポート切断が発生したときにネットワークエンジニアに警告するリレー警告機能が組み込まれています。また、Class I Div.2、ATEX Zone 2およびIECEX規格で定義される危険な場所など、過酷な産業環境向けに設計されています。

スイッチは、FCC、UL、およびCE規格に準拠しており、0~60°Cの標準動作温度範囲、または-40~75°Cの広い動作温度範囲をサポートしています。すべてのスイッチは、100%バーンインテストを受けており、産業用オートメーションの制御アプリケーションの特別なニーズを満たしています。EDS-305スイッチは、DINレールや配電ボックスに簡単に取り付けすることができます。

### 仕様

#### 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 models: 5 EDS-305-M-SC/M-ST/S-SC/S-SC-80 models: 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/M-SC-T: 1
100BaseFX Ports (multi-mode ST connector)	EDS-305-M-ST/M-ST-T: 1
100BaseFX Ports (single-mode SC connector)	EDS-305-S-SC/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			
	Fiber Cable Type		OM1	OM2	OM3	OM4
	Typical Distance		4 km	4 km	4 km	4 km
	Wavelength	TX Range (nm)	1260 to 1360			
		RX Range (nm)	1100 to 1600			
	Optical Power	TX Range (dBm)	-10 to -20			
		RX Range (dBm)	-3 to -32			
		Link Budget (dB)	12			
		Dispersion Penalty (dB)	3	3	3	3
			100BaseFX			
			Multi-Mode		Single-Mode	Single-Mode
					(40 km)	(80 km)
	Fiber Cable Type		50/125 $\mu$ m		G.652	G.652
			800 MHz x km			
	Typical Distance		5 km		40 km	80 km
	Wavelength	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 using a single-mode fiber transceiver over short distances, we highly recommend installing an attenuator to prevent damaging the transceiver due to excessive optical power.</p> <p>Note: To reach the "typical distance" of a fiber transceiver, the Link Budget (dB) should be greater than the combined Dispersion Penalty (dB) and Total Link Loss (dB).</p>					

## DIP Switch Configuration

Ethernet Interface	Port break alarm
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## Switch Properties

MAC Table Size	2 K
Packet Buffer Size	768 kbits
Processing Type	Store and Forward

## Power Parameters

Connection	1 removable 6-contact terminal block(s)
Input Current	0.2 A (max.)
Input Voltage	12-48 VDC Redundant dual inputs
Operating Voltage	9.6 to 60 VDC
Reverse Polarity Protection	Supported
Overload Current Protection	Supported

## Physical Characteristics

Housing	Metal
IP Rating	IP30
Dimensions	53 x 135 x 105 mm (2.09 x 5.32 x 4.13 in)
Weight	790 g (1.75 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

Safety	UL 61010-201-1 UL 62368-1 EN 62368-1 IEC 62368-1
EMC	EN 55032/35
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 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
Hazardous Locations	ATEX Class I Division 2 IECEx
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27

Freefall	IEC 60068-2-32
Maritime	DNV

### MTBF

Time	EDS-305 models: 3,821,019 hrs EDS-305-M/S models: 3,327,332 hrs
Standards	Telcordia (Bellcore), GB

### Warranty

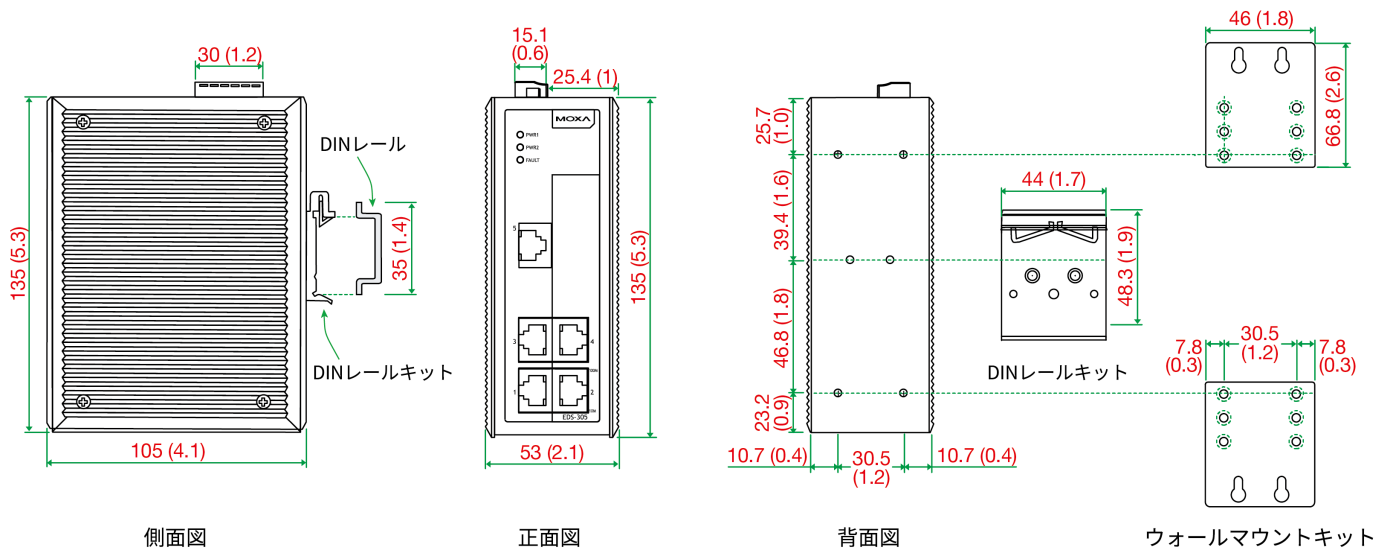
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/jp/warranty">www.moxa.com/jp/warranty</a>

### Package Contents

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

## 寸法

単位: mm (インチ)



## 注文情報

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	-	-	-	-10 to 60°C
EDS-305-T	5	-	-	-	-40 to 75°C
EDS-305-M-SC	4	1	-	-	-10 to 60°C
EDS-305-M-SC-T	4	1	-	-	-40 to 75°C
EDS-305-M-ST	4	-	1	-	-10 to 60°C
EDS-305-M-ST-T	4	-	1	-	-40 to 75°C

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-S-SC	4	–	–	1	-10 to 60°C
EDS-305-S-SC-80	4	–	–	1	-10 to 60°C
EDS-305-S-SC-T	4	–	–	1	-40 to 75°C

## アクセサリ（別売）

### Power Supplies

HDR-60-24	60 W/2.5 A DIN-rail 24 VDC power supply, universal 85 to 264 VAC or 120 to 370 VDC input voltage, -30 to 70°C operating temperature
NDR-120-24	120 W/5.0 A DIN-rail 24 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperature
NDR-120-48	120 W/2.5 A DIN-rail 48 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperature
NDR-240-48	240 W/5.0 A DIN-rail 48 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°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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