EDS-2018-ML Series

16+2G-port Gigabit unmanaged Ethernet switches



Features and Benefits

- 2 Gigabit uplinks with flexible interface design for high-bandwidth data aggregation
- · QoS supported to process critical data in heavy traffic
- · Relay output warning for power failure and port break alarm
- IP30-rated metal housing
- Redundant dual 12/24/48 VDC power inputs
- -40 to 75°C operating temperature range (-T models)

Certifications



Introduction

The EDS-2018-ML series of industrial Ethernet switches have sixteen 10/100M copper ports and two 10/100/1000BaseT(X) or 100/1000BaseSFP combo ports, which are ideal for applications that require high-bandwidth data convergence. Moreover, to provide greater versatility for use with applications from different industries, the EDS-2018-ML Series also allows users to enable or disable the Quality of Service (QoS) function, broadcast storm protection, and port break alarm function with DIP switches on the outer panel.

The EDS-2018-ML Series has 12/24/48 VDC redundant power inputs, DIN-rail mounting, and high-level EMI/EMC capability. In addition to its compact size, the EDS-2018-ML Series has passed a 100% burn-in test to ensure it will function reliably in the field. The EDS-2018-ML Series has a standard operating temperature range of -10 to 60°C with wide-temperature (-40 to 75°C) models also available.

Specifications

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	16 Auto MDI/MDI-X connection Full/Half duplex mode Auto negotiation speed
Combo Ports (10/100/1000BaseT(X) or 100/ 1000BaseSFP+)	2 Auto negotiation speed Auto MDI/MDI-X connection Full/Half duplex mode
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3x for flow control IEEE 802.1p for Class of Service
DIP Switch Configuration	
Ethernet Interface	Quality of Service (QoS), Broadcast storm protection, Port break alarm
Input/Output Interface	
Alarm Contact Channels	Relay output with current carrying capacity of 1 A @ 24 VDC



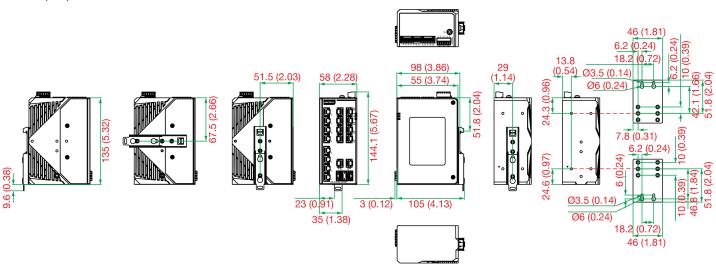
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Overload Current ProtectionSupportedReverse Polarity ProtectionSupportedPhysical CharacteristicsHousingMetalIP RatingP30Dimensions58 x 135 x 95 mm (2.28 x 5.31 x 3.74 in)Weight683 g (1.51 lb)InstallationDIN-rail mounting, Wall mounting (with optional kit)Environmental LimitsDSS 2018-ML 2GTXSFP-10 to 60°C (14 to 140°F)Operating TemperatureEDS-2018-ML 2GTXSFP-10 to 60°C (14 to 140°F)Storage Temperature (package included)-40 to 85°C (-00 to 185°F)Ambient Relative Humidity5 to 95% (non-condensing)Standards and CertificationsStardards and CertificationsStardardsEDS 5000-4.2 ESD: Contact: 6 N/A: 16 N/A: 16 N/WEDS 5000-4.2 ESD: Contact: 6 N/A: 16 N/A: 16 N/WIEC 61000-4.2 SES: 00 YmEEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/A: 16 N/WIEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/A: 16 N/WEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WIEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WIEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WIEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WIEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WIEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WIEC 6 N/A: 16 N/WEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WIEC 6 N/A: 16 N/WEC 61000-4.2 SESD: Contact: 6 N/A: 16 N/WIEC 6 N/A: 16 N/A: 16 N/WEC 61000-4.	Input Voltage	12/24/48 VDC, Redundant dual inputs
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Maritime DNV, LR, ABS, NK Railway EN 50121-4 Traffic Control NEMA TS2	EMS	IEC 61000-4-3 RS: 80 MHz to 1 MHz: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V
Railway EN 50121-4 Traffic Control NEMA TS2	Hazardous Locations	Class I Division 2, IECEx, ATEX
Traffic Control NEMA TS2	Maritime	DNV, LR, ABS, NK
	Railway	EN 50121-4
Vibration IEC 60068-2-6	Traffic Control	NEMA TS2
	Vibration	IEC 60068-2-6



Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
MTBF	
Time	1,776,132 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x EDS-2018-ML Series switch
Installation Kit	2 x cap, plastic, for SFP port 4 x cap, plastic, for RJ45 port
Documentation	1 x quick installation guide 1 x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	10/100BaseT(X) Ports (RJ45 connector)	Combo Ports (10/100/1000BaseT(X) or 100/1000BaseSFP+)	Operating Temp.
EDS-2018-ML-2GTXSFP	16	2	-10 to 60°C
EDS-2018-ML-2GTXSFP-T	16	2	-40 to 75°C

Accessories (sold separately)

SFP Modules

SFP-1FEMLC-T	SFP module with 1 100Base multi-mode, LC connector for 2/4 km transmission, -40 to 85° C operating temperature
SFP-1FESLC-T	SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85° C operating temperature



SFP-1FELLC-T	SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85° C operating temperature
SFP-1GTXRJ45-T	SFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°C operating temperature
SFP-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60°C operating temperature
SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, -40 to 85°C operating temperature
SFP-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, -40 to 85°C operating temperature
SFP-1GLXLC	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-1GLXLC-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating temperature
SFP-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature
SFP-1GLHXLC	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLHXLC-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GZXLC	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature
SFP-1GZXLC-T	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1GEZXLC	SFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperature
SFP-1G10ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G10ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G10BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G10BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G20BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G20ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G20ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G20BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G40BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G40BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G40ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G40ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature



45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50 $^\circ$ C operating temperature
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
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
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
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 kit, 2 plates, 8 screws, 46 x 66.8 x 2 mm
19-inch rack-mounting kit

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