# **EDS-505A Series**

## 5-port managed Ethernet switches



#### **Features and Benefits**

- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches), and STP/RSTP/MSTP for network redundancy
- TACACS+, SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- Easy network management by web browser, CLI, Telnet/serial console, Windows utility, and ABC-01
- · Supports MXstudio for easy, visualized industrial network management

#### Certifications



## Introduction

The EDS-505A standalone 5-port managed Ethernet switches, with their advanced Turbo Ring and Turbo Chain technologies (recovery time < 20 ms), RSTP/STP, and MSTP, increase the reliability and availability of your industrial Ethernet network. Models with a wide operating temperature range of -40 to 75°C are also available, and the switches support advanced management and security features, making the EDS-505A switches suitable for any harsh industrial environment.

#### **Additional Features and Benefits**

- Command line interface (CLI) for quickly configuring major managed functions
- DHCP Option 82 for IP address assignment with different policies
- Supports EtherNet/IP and Modbus TCP protocols for device management and monitoring
- Compatible with PROFINET protocol for transparent data transmission
- Lock port function for blocking unauthorized access based on MAC address
- · IGMP snooping and GMRP for filtering multicast traffic

- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- QoS (IEEE 802.1p/1Q and TOS/DiffServ) to increase determinism
- Port Trunking for optimum bandwidth utilization
- RMON for proactive and efficient network monitoring
- SNMPv1/v2c/v3 for different levels of network management
- Bandwidth management to prevent unpredictable network status
- Lock port function for blocking unauthorized access based on MAC Automatic warning by exception through email and relay output

## **Specifications**

#### Input/Output Interface

Alarm Contact Channels	2 Relay output with current carrying capacity of 1 A $@$ 24 VDC
Digital Input Channels	2
Digital Inputs	+13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA
Buttons	Reset button



## Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	EDS-505A/505A-T: 5 EDS-505A-MM-SC/MM-ST/SS-SC Series: 3 All models support: Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection
100BaseFX Ports (multi-mode SC connector)	EDS-505A-MM-SC Series: 2
100BaseFX Ports (multi-mode ST connector)	EDS-505A-MM-ST Series: 2
100BaseFX Ports (single-mode SC connector)	EDS-505A-SS-SC Series: 2
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.1X for authentication IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.3x for flow control IEEE 802.3ad for Port Trunk with LACP

#### **Optical Fiber**

	100BaseFX				
		N	lulti-Mode	Single-Mode	
Fibo		OM1	50/125 µm	G.652	
Fiber Cable Type		OMI	800 MHz x km	G.052	
Typical Distance		4 km	5 km	40 km	
	Typical (nm)	1300		1310	
Wavelength	TX Range (nm)	1260 to 1360		1280 to 1340	
	RX Range (nm)	1100 to 1600		1100 to 1600	
	TX Range (dBm)	-10 to -20		0 to -5	
	RX Range (dBm)	-3 to -32		-3 to -34	
Optical Power	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).

### **Ethernet Software Features**

Filter	802.1Q VLAN Port-based VLAN IGMP v1/v2 GVRP GMRP
Industrial Protocols	EtherNet/IP Modbus TCP
Management	IPv4/IPv6 SNMPv1/v2c/v3 LLDP Port Mirror Back Pressure Flow Control BOOTP



	DDM DHCP Option 66/67/82 DHCP Server/Client Flow control RARP RMON SMTP SNMP Inform Syslog Telnet TFTP
ΜΙΒ	MIB-II Bridge MIB Ethernet-like MIB P-BRIDGE MIB Q-BRIDGE MIB RMON MIB Groups 1, 2, 3, 9 RSTP MIB
Redundancy Protocols	STP MSTP RSTP LACP Link Aggregation Turbo Chain Turbo Ring v1/v2
Security	HTTPS/SSL RADIUS TACACS+ Port Lock SSH Broadcast storm protection
Time Management	NTP Server/Client SNTP
Switch Properties	
IGMP Groups	256
MAC Table Size	8 K
Max. No. of VLANs	64
Packet Buffer Size	1 Mbits
Priority Queues	4
VLAN ID Range	VID 1 to 4094
LED Interface	
LED Indicators	PWR1, PWR2, FAULT, 10/100M (TP port), 100M (fiber port), MSTR/HEAD, CPLR/TAIL
Serial Interface	
Console Port	RS-232 (TxD, RxD, GND), 10-pin RJ45 (115200, n, 8, 1)
DIP Switch Configuration	
Ethernet Interface	Turbo Ring, Master, Coupler, Reserve
Power Parameters	
Connection	2 removable 6-contact terminal block(s)
Input Voltage	12/24/48 VDC Redundant dual inputs



Input CurrentEDS-600A/LDS-605A-T: 0.21 A @ 24 VDC EDS-600A/LMS-SCRAMM-S	Operating Voltage	9.6 to 60 VDC
Protection         Supported           Peverase Polarity Protection         Supported           Physical Characteristics         Metal           IPsating         IP30           Dimensions         802 x 135 x 105 mm (3.16 x 5.31 x 4.13 in)           Weight         1040 g (2.3 ln)           Installation         1040 g (2.3 ln)           Installation         Standard Models: 10 to 60°C (14 to 140°F)           Operating Temperature         Standard Models: 10 to 60°C (14 to 140°F)           Storage Temperature (package included)         -40 to 85°C (-40 to 185°F)           Ambient Relative Humidity         5 to 95% (non-condensing)           Standards and Certifications         Standard Models: -40 to 185°F)           Standards and Certifications         UL 60500-1           Standards and Certifications         Standards - 20 to 75°C (-40 to 185°F)           Standards and Certifications         Standards - 20 to 75°C (-40 to 185°C)           Standards and Certifications         Standards - 20 to 75°C (-40 to 185°C)           Standards and Certifications         Standards - 20 to 15°C (-40 to 185°C)           Standards and Certifications         Standards - 20 to 75°C (-40 to 185°C)           Edition         Standards - 20 to	Input Current	
Physical CharacteristicsHousingMetalIP RatingIP30Dimensions80.2x 135 x 105 mm (3.16 x 5.31 x 4.13 in)Weight1040 g (2.3 lb)InstallationUNY rail mounting Wall mounting (with optional kit)Environmental LimitsUNY rail mounting Wide Temp. Models: -10 to 50°C (14 to 140°F) Wide Temp. Models: -10 to 50°C (14 to 140°F) Wide Temp. Models: -10 to 50°C (14 to 140°F) Storage Temperature (package included)Anbient Relative Humidity-01 to 85°C (-40 to 185°F)Anbient Relative Humidityto 95°C (-40 to 185°F)Standards and Certifications-10 to 85°C (-40 to 185°F)SafetyIN 698050 1 UL 698050 1 UL 698050 1 UL 698050 1 UL 698050 1 UL 698050 1 UL 698050 1EMCIN 5032/35EMASics 250.2 Contact: 6 kV; Air: 8 kV IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000	Overload Current Protection	Supported
HousingMetalIP RatingIP30Dimensions80.2 x 138 x 105 mm (3.16 x 5.31 x 4.13 in)Weight1040 g (2.3 lb)InstallationDin-ani mounting Wall mounting (with optional kit)Environmental LimitsImage: Standard Models:: 10 to 60°C (14 to 140°F)Operating Temperature40 to 85°C (40 to 185°F)Storage Temperature (tackage included)-40 to 85°C (40 to 185°F)Ambient Relative Humidity50 50% (non-condensing)Standard Models:: 10 to 60°C (14 to 167°F)Standard S and CertificationsSafetyImage: Standard Models:: 10 to 60°C (14 to 185°F)Standard S and CertificationsSafetyImage: Standard Models:: 10 to 60°C (14 to 185°F)Standard Models:: 10 to 60°C (14 to 185°F)Standard Models:: 10 to 60°C (14 to 185°F)Ambient Relative Humidity50 50% (non-condensing)Standard Models:: 10 to 60°C (14 to 185°F)Standard Models:: 10 to 60°C (14 to 185°F) </td <td>Reverse Polarity Protection</td> <td>Supported</td>	Reverse Polarity Protection	Supported
IP RatingIP30Dimensions80.2 x 135 x 105 mm (3.16 x 5.31 x 4.13 in)Weight1040 g (2.3 lb)Installation1040 g (2.3 lb)InstallationINI-rail mounting Wall mounting with optional kit)Environmental LimitsWall mounting with optional kit)Operating Temperature (package included)-40 to 85° (-40 to 185°F)Anbient Relative Humidity5 to 95% (non-condensing)Standard S and CertificationsStandard Models: -40 to 75°C (-40 to 185°F)SafetyNo 8503235EMCEN S503235EMSCiSPR 92, FCC Part 15B Class AEMSStore 375°C Grintact: 6 KV: All rs KV IEC 61000-4: 4 SEY: Contact: 6 KV: All rs KV IEC 61000-4: 5 SW: Spinal: 1 KV IEC 61000-4: 5 SW: Spinal: 2 KV IEC 61000-4: 5 SW: Spinal: 1 KV IEC 61	Physical Characteristics	
Dimensions         80.2 x 135 x 106 mm (3.16 x 5.31 x 4.13 in)           Weight         1040 g (2.3 lb)           Installation         InVirail mounting (with optional kit)           Environmental Limits         Wall mounting (with optional kit)           Operating Temperature (package included)         4-01 to 85°C (40 to 165°F)           Storage Temperature (package included)         4-01 to 85°C (40 to 165°F)           Antient Relative Humidity         5 to 95% (non-condensing)           Standards and Certifications         5           Stefty         Nik 62386-1           EMC         Nik 62386-1           EMS         Storage Science           EMS         Storage Science           EMS         CISPR 32, FCC Part 15B Class A           EMS         Science Science: Sc	Housing	Metal
Weight         1040 g (2.3 lb)           Installation         DIN-rail mounting will mounting (with optional kit)           Environmental Limits         Environmental Limits           Operating Temperature         Standard Models: -10 to 60°C (14 to 140°F) Wide Tempe. Models: -40 to 75°C (-40 to 187°F)           Storage Temperature (package included)         -40 to 85°C (-40 to 185°F)           Ambient Relative Humidity         5 to 95% (non-condensing)           Standards and Certifications         E           EMC         EN 55032/35           EMS         CISPR 32, FCC Part 15B Class A           EMS         EC 61000-4-2 ESD: Contact: 6 V/, Air.8 KV IEC 61000-4-2 ESD: Contact: 6 V/, Air.8 KV           EV 6000-4-4 EFF: Power: 2 V/S Signal: 2 KV         EV           Floc 61000-4-5 ES: DOW-4-5 ES: Source: 2 KV, Signal: 2 KV         EV           Floc 61000-4-6 EFF: DOW-4-5 ES: Source: 2 KV, Signal: 2 KV         EV           Floc 61000-4-8 FFMF         EC 60006-2-27           Floc 61000-4-9 ES: DOW 4-5 ES: DOW 4-5 ES:	IP Rating	IP30
Installation         DN-rail mounting Wall mounting (with optional kit)           Environmental Limits         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         EN 62368-1 UL 5069-1 UL 5069           Standards and Certifications         EN 62368-1 UL 5069-1 UL 5069           EMC         EN 55032/35           EMC         EN 55032/35           EMS         CISPR 32, FCC Part 15B Class A           EMS         EC 61000-4.2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4.3 RS: 80 MPuer 1 GH2: 20 VIII UE 508           Hazardous Locations         ATEX Class 1 Division 2           Materitime         CISPR 32, FCC Part 15B Class A           File         EC 61000-4.3 RS: 80 MPuer 1 KV IEC 61000-4.4 S UPUER : 20 VIII Signal: 1 KV IEC 61000-4.4 S UPUER : 20 VIII Signal: 1 KV IEC 61000-4.4 S UPUER : 20 VIII Signal: 2 KV IEC 61000-4.5 SUPUER : 20 VIII Signal: 2 KV IEC 61000-	Dimensions	80.2 x 135 x 105 mm (3.16 x 5.31 x 4.13 in)
Wall mounting (with optional kit)           Environmental Limits           Operating Temperature         Standard Models: -40 to 75°C (-40 to 187°F)           Storage Tomperature (package included)         -40 to 85°C (-40 to 185°F)           Ambient Relative Humidity         5 to 95% (non-condensing)           Standards and Certifications         Standards and Certifications           Standards and Certifications         EN 62368-1 UL 60980-1 UL 60980-1           EMC         EN 55032/35           EMI         CISPR 32, FOC Part 15B Class A           EMS         EC 61000-42 ESD: Contact: 6 KV; Air: 8 kV IEC 61000-44 EFT: Power: 2 KV; Signal: 1 KV IEC 61000-44 EFT: Power: 2 KV; Signal: 1 KV IEC 61000-44 EFT: Power: 2 KV; Signal: 1 KV IEC 61000-44 EFT: Power: 2 KV; Signal: 2 KV           Hazardous Locations         IEC 60068-2-31           Kinsheim         IEC 60068-2-31           Freefal         IEC 60068-2-31           Martime         IEV           MTEF         IED 50505 models: 1,157,396 hrs           Time         EDS-505A models: 1,157,396 hrs	Weight	1040 g (2.3 lb)
Operating TemperatureStandard 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 Humidity5 to 95% (non-condensing)Standards and CertificationsStandards and CertificationsSafetyEN 62368-1 UL 60960-1 UL 508EMCEN 55032/35EMICISPR 32, FCC Part 15B Class AEMSEC 61000-4-2 ESD: Contact: 6 KV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 VM IEC 61000-4-4 SS: 90 Weil: 2 KV; Signal: 1 KV IEC 61000-4-6 SS: 10 V IEC 61000-4-7 SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS S	Installation	
Nide Temp. Models: -40 to 75°C (-40 to 187°F)       Storage Temperature (package included)     -40 to 85°C (-40 to 185°F)       Ambient Relative Humidity     5 to 95% (non-condensing)       Standards and Certifications     Standards and Certifications       Safety     LN 62386-1 UL 60950-1 UL 508       EMC     EN 55032/35       EMI     CISPR 32, FCC Part 15B Class A       EMS     LEC 61000-4-2 ESD: Contact: 6 KV; Air: 8 kV EC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m EC 61000-4-4 FT: Power: 2 kV; Signal: 1 kV EC 61000-4-4 FT: Power: 2 kV; Signal: 1 kV EC 61000-4-8 FT: Power: 2 kV; Signal: 2 kV       Hazardous Locations     ATEX Class I Division 2       Vibration     IEC 60068-2-61       Shock     IEC 60068-2-31       Martime     DNV       MTBF     Time       Time     EDS-605A models: 1,197,396 hrs EDS-605A-MMXSS models: 1,090,077 hrs	Environmental Limits	
Ambient Relative Humidity       5 to 95% (non-condensing)         Standards and Certifications         Safety       EN 82388-1 UL 60950-1 UL 503         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 BR: 80 MHz to 1 GHz: 20 Vm IEC 61000-4-4 BFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-4 BFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-8 BF: 60 MHz to 1 GHz: 20 Vm         Hazardous Locations       ATEX Class 1 Division 2         Vibration       IEC 60068-2-6         Shock       IEC 60068-2-31         Martime       DNV         MTBF       IEC 6005A-models: 1,157,396 hrs ED 5005A-mdviss models: 1,109,0077 hrs	Operating Temperature	
Standards and Certifications         Safety       EN 62368-1 UL 60950-1 UL 509         EMC       EN 55032/35         EMI       CISPR 32, FCC Part 15B Class A         EMS       EC 61000-4.2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4.2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4.2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4.2 ESD: Power: 2 kV; Signal: 1 kV IEC 61000-4.4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4.4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4.6 CS: 10 V IEC 61000-4.6 CS: 10 V         Hazardous Locations       ATEX Class I Division 2         Vibration       IEC 60068-2-6         Shock       IEC 60068-2-61         Freefall       IEC 60068-2-61         Maritime       DNV         MTBF       IEC 50054-MM/SS modelis: 1,157,396 hrs         Time       EDS-505A-MM/SS modelis: 1,190,077 hrs	Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
SafetyEN 62368-1 UL 508EMCEN 55032/35EMICISPR 32, FCC Part 15B Class AEMSCISPR 32, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 6 KY; Air 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m 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 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-6 CS:	Ambient Relative Humidity	5 to 95% (non-condensing)
LL 60960-1 UL 508EMCEN 55032/35EMICISPR 32, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 ESD: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-8 DFMFHazardous LocationsATEX Class I Division 2VibrationIEC 60068-2-6ShockIEC 60068-2-31FreefallIEC 60068-2-31MaritimeDNVMTBFTimeEDS-505A models: 1,157,396 hrs EDS-505A-MM/SS models: 1,000,077 hrs	Standards and Certifications	
EMICISPR 32, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 6 KY, 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 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMFHazardous LocationsATEX Class I Division 2VibrationIEC 60068-2-6ShockIEC 60068-2-31FreefallIEC 60068-2-31MaritimeDNVMTBFTimeEDS-505A models: 1,157,396 hrs EDS-505A-MMX/SS models: 1,090,077 hrs	Safety	UL 60950-1
EMSIEC 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 ETT: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 EST: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMFHazardous LocationsATEX Class I Division 2VibrationIEC 60068-2-6ShockIEC 60068-2-27FreefallIEC 60068-2-31MaritimeDNVMTBFTimeEDS-505A models: 1,157,396 hrs EDS-505A-MMX/SS models: 1,090,077 hrs	EMC	EN 55032/35
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 61000-4-6 CS: 10 V IEC 61000-4-8 CS: 10 V IEC 61000-4-8 OFMFHazardous LocationsATEX Class I Division 2VibrationIEC 60068-2-6ShockIEC 60068-2-27FreefallIEC 60068-2-31MaritimeDNVMTBFTimeEDS-505A models: 1,157,396 hrs EDS-505A-MMX/SS models: 1,090,077 hrs	EMI	CISPR 32, FCC Part 15B Class A
Class I Division 2       Vibration     IEC 60068-2-6       Shock     IEC 60068-2-27       Freefall     IEC 60068-2-31       Maritime     DNV       MTBF     IEDS-505A models: 1,157,396 hrs EDS-505A-MM/SS models: 1,090,077 hrs	EMS	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: 10 V
Shock       IEC 60068-2-27         Freefall       IEC 60068-2-31         Maritime       DNV         MTBF       EDS-505A models: 1,157,396 hrs EDS-505A-MM/SS models: 1,090,077 hrs	Hazardous Locations	
Freefall       IEC 60068-2-31         Maritime       DNV         MTBF       EDS-505A models: 1,157,396 hrs EDS-505A-MM/SS models: 1,090,077 hrs	Vibration	IEC 60068-2-6
Maritime     DNV       MTBF     EDS-505A models: 1,157,396 hrs EDS-505A-MM/SS models: 1,090,077 hrs	Shock	IEC 60068-2-27
MTBF Time EDS-505A models: 1,157,396 hrs EDS-505A-MM/SS models: 1,090,077 hrs	Freefall	IEC 60068-2-31
Time         EDS-505A models: 1,157,396 hrs           EDS-505A-MM/SS models: 1,090,077 hrs	Maritime	DNV
EDS-505A-MM/SS models: 1,090,077 hrs	MTBF	
Standards Telcordia (Bellcore), GB	Time	
	Standards	Telcordia (Bellcore), GB



## Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x EDS-505A Series switch
Cable	1 x DB9 female to RJ45 10-pin
Installation Kit	4 x cap, plastic, for RJ45 port 2 x cap, plastic, for SC fiber port (-SC models) 2 x cap, plastic, for ST fiber port (-ST models)
Documentation	<ol> <li>x quick installation guide</li> <li>x warranty card</li> <li>x product certificates of quality inspection, Simplified Chinese</li> <li>x product notice, Simplified Chinese</li> </ol>

# **Dimensions**

Unit: mm (inch)



# **Ordering Information**

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-505A	5	-	-	-	-10 to 60°C
EDS-505A-T	5	-	-	-	-40 to 75°C
EDS-505A-MM-SC	3	2	-	-	-10 to 60°C
EDS-505A-MM-SC-T	3	2	-	-	-40 to 75°C
EDS-505A-MM-ST	3	-	2	-	-10 to 60°C
EDS-505A-MM-ST-T	3	-	2	-	-40 to 75°C
EDS-505A-SS-SC	3	-	-	2	-10 to 60°C
EDS-505A-SS-SC-T	3	-	-	2	-40 to 75°C



# **Accessories (sold separately)**

### Storage Kits

otorago nato	
ABC-01	Configuration backup and restoration tool for managed Ethernet switches and AWK Series wireless APs/bridges/clients, 0 to 60°C operating temperature
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 $70^{\circ}$ 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 $70^{\circ}$ 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
Software	
MXview-50	MXview license for 50 nodes
MXview-100	MXview license for 100 nodes
MXview-250	MXview license for 250 nodes
MXview-500	MXview license for 500 nodes
MXview-1000	MXview license for 1000 nodes
MXview-2000	MXview license for 2000 nodes
MXview Upgrade-50	MXview license expansion for 50 nodes
Wall-Mounting Kits	
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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