EDS-518A Series

16+2G-port Gigabit managed Ethernet switches



Features and Benefits

- · 2 Gigabit plus 16 Fast Ethernet ports for copper and fiber
- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches),¹ RSTP/ STP, and 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

Certifications



Introduction

The EDS-518A standalone 18-port managed Ethernet switches provide 2 combo Gigabit ports with built-in RJ45 or SFP slots for Gigabit fiber-optic communication. The Ethernet redundancy technologies Turbo Ring and Turbo Chain (recovery time < 20 ms) increase the reliability and speed of your network backbone. The EDS-518A switches also support advanced management and security features.

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
- Supports the ABC-01-USB (Automatic Backup Configurator) for system configuration backup
- · 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 and TOS/DiffServ) to increase determinism
- Port Trunking for optimum bandwidth utilization
- SNMPv1/v2c/v3 for different levels of network management
- RMON for proactive and efficient network monitoring
- Bandwidth management to prevent unpredictable network status
- Automatic warning by exception through email and relay output

Specifications

Alarm Contact Channels	Resistive load: 1 A @ 24 VDC
Digital Inputs	+13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA
Ethernet Interface	
10/100BaseT(X) Ports (RJ45 connector)	EDS-518A/518A-T: 16 EDS-518A-MM-SC/MM-ST/SS-SC Series: 14 EDS-518A-SS-SC-80: 14 All models support: Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection
100BaseFX Ports (multi-mode SC connector)	EDS-518A-MM-SC Series: 2

^{1.} Gigabit Ethernet recovery time < 50 ms



100BaseFX Ports (multi-mode ST connector)	EDS-518A-MM-ST Series: 2				
100BaseFX Ports (single-mode SC connector)	EDS-518A-SS-SC Series: 2				
100BaseFX Ports, Single-Mode SC Connector, 80 km	EDS-518A-SS-SC-80 Series: 2				
Combo Ports (10/100/1000BaseT(X) or 1000BaseSFP)	2				
Optical Fiber	100BaseFX				
	Multi-Mode Single-Mod			Single-Mode	
	Fiber Cable Type		OM1	50/125 μm 800 MHz x km	G.652
	Тур	ical Distance	4 km	5 km	40 km
		Typical (nm)		1300	1310
	Wavelength	TX Range (nm)	1260 to 1360		1280 to 1340
		RX Range (nm)	11	100 to 1600	1100 to 1600
		TX Range (dBm)		-10 to -20	0 to -5
	Optical Power	RX Range (dBm)		-3 to -32	-3 to -34
		Link Budget (dB)		12	29
		Dispersion Penalty (dB)		3	1
	Note: When connecting a single-mode fiber transceiver, we recommend using a attenuator to prevent damage caused by excessive optical power. Note: Compute the "typical distance" of a specific fiber transceiver as follows: L budget (dB) > dispersion penalty (dB) + total link loss (dB).				
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX 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				
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				
МІВ	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, TACACS+, Port Lock, RADIUS, SSH, Broadcast storm protection				
Time Management	NTP Server/Client	t, SNTP			



Switch Properties	
IGMP Groups	256
MAC Table Size	8 K
Max. No. of VLANs	64
Packet Buffer Size	2 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),1000M (Gigabit port), MSTR/ HEAD, CPLR/TAIL
Serial Interface	
Console Port	RS-232 (TxD, RxD, GND), 8-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 Current	EDS-518A/518A-T: 0.44 A @ 24 VDC EDS-518A-MM-SC/MM-ST/SS-SC Series: 0.52 A @ 24 VDC EDS-518A-SS-SC-80: 0.52 A @ 24 VDC
Input Voltage	24 VDC, Redundant dual inputs
Operating Voltage	12 to 45 VDC
Overload Current Protection	Supported
Reverse Polarity Protection	Supported
Physical Characteristics	
Housing	Metal
IP Rating	IP30
Dimensions	94 x 135 x 142.7 mm (3.7 x 5.31 x 5.62 in)
Weight	1630 g (3.60 lb)
Installation	DIN-rail mounting, Wall mounting (with optional kit)
Environmental Limits	
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)
Standards and Certifications	
Safety	EN 60950-1, UL 60950-1, CSA C22.2 No. 60950-1, UL 508
Hazardous Locations	ATEX, Class I Division 2
EMC	EN 55032/24

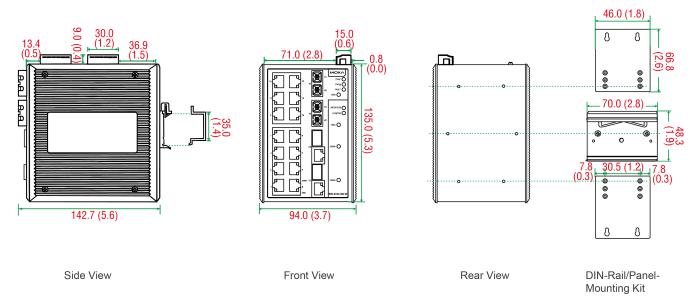


EMSEC 61000-42 ESD: Contact: 6 KV; Air: 8 KV EC 61000-43 EF; 80 MHz to 1 GHz: 10 V/m EC 61000-44 SF; Nower: 1 KV Signai: 1. 6V V EC 61000-44 SF; Nower: 1 KV Signai: 0. 5 KV EC 61000-45 Surge: Power: 2 KV; Signai: 1. KV EC 61000-46 SPFMFMarttimeDNV-GL, NKShockEC 60088-2.47VibrationEC 60088-2.47KibrationEC 60088-2.41TimeEC 60088-2.41MTBFEC 60088-2.31Time250,966 hrsStandardsTelordia (Belicore), GBVarrantySyarsVarrantySyarsPackage ContentsSe www.moxa.com/warrantyPackage Contents1 x EDS-518A Series switchCable1 x DB9 female to RJ45 Iop.inCable1 x DB9 female to RJ45 Iop.inInstallation Kit2 x cap, plastic, for RJ45 port 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for ST Ber port (SC models) 2 x cap, plastic, for	EMI	CISPR 32, FCC Part 15B Class A
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1 x quick installation guide 1 x warranty card 1 x product certificates of quality inspection, Simplified Chinese 1 x product notice, Simplified Chinese	Installation Kit	2 x cap, plastic, for SFP slot 2 x cap, plastic, for SC fiber port (-SC models)
Note SFP modules need to be purchased separately for use with this product.	Documentation	1 x quick installation guide 1 x warranty card 1 x product certificates of quality inspection, Simplified Chinese
	Note	SFP modules need to be purchased separately for use with this product.



Dimensions

Unit: mm (inch)



Ordering Information

Model Name	10/100BaseT(X) Ports RJ45 Connector	Combo Ports 10/100/ 1000BaseT(X) or 1000BaseSFP	100BaseFX Ports Multi-Mode, SC Connector	100BaseFX Ports Multi-Mode, ST Connector	100BaseFX Ports Single-Mode, SC Connector	100BaseFX Ports Single-Mode, SC Connector, 80 km	Operating Temp.
EDS-518A	16	2	-	-	-	-	0 to 60°C
EDS-518A-T	16	2	-	-	-	-	-40 to 75°C
EDS-518A-MM-SC	14	2	2	-	-	-	0 to 60°C
EDS-518A-MM-SC-T	14	2	2	-	-	-	-40 to 75°C
EDS-518A-MM-ST	14	2	-	2	-	-	0 to 60°C
EDS-518A-MM-ST-T	14	2	-	2	-	-	-40 to 75°C
EDS-518A-SS-SC	14	2	-	-	2	-	0 to 60°C
EDS-518A-SS-SC-T	14	2	-	-	2	-	-40 to 75°C
EDS-518A-SS-SC-80	14	2	-	-	-	2	0 to 60°C

Accessories (sold separately)

Storage Kits	
ABC-01	Configuration backup and restoration tool for managed Ethernet switches and AWK Series wireless APs/bridges/clients, 0 to 60°C operating temperature
SFP Modules	
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-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-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-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-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-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
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-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-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-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for 500 m transmission, 0 to 60°C operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for 500 m 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-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300/550 m transmission, 0 to 60° C operating temperature
SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300/550 m 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
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 $^\circ$ 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



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
Software	
MXview-50	Industrial network management software with a license for 50 nodes (by IP address)
MXview-100	Industrial network management software with a license for 100 nodes (by IP address)
MXview-250	Industrial network management software with a license for 250 nodes (by IP address)
MXview-500	Industrial network management software with a license for 500 nodes (by IP address)
MXview-1000	Industrial network management software with a license for 1000 nodes (by IP address)
MXview-2000	Industrial network management software with a license for 2000 nodes (by IP address)
MXview Upgrade-50	License expansion of MXview industrial network management software by 50 nodes (by IP address)

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