

EDS-518A 系列

16+2G 埠 Gigabit 網管型乙太網路交換器



特色與優點

- 2 個 Gigabit 連接埠加 16 個快速乙太網路連接埠，銅質纜線和光纖纜線適用
- 支援 Turbo Ring 和 Turbo Chain (對於 250 台交換器，復原時間 < 20 ms)，¹，RSTP/STP 和 MSTP，實現網路備援
- 支援 TACACS+、SNMPv3、IEEE 802.1X、HTTPS 和 SSH，強化網路安全
- 透過網頁瀏覽器、CLI、Telnet / 序列控制埠、Windows 工具程式和 ABC-01 輕鬆管理網路

認證



簡介

EDS-518A 是獨立的 18 埠網管型乙太網路交換器，提供內建 RJ45 或 SFP 插槽的 2 個 combo Gigabit 連接埠，可供 Gigabit 光纖通訊之用。乙太網路備援技術 Turbo Ring 和渦輪鏈 (復原時間 < 20 ms) 可提高網路骨幹的可靠性和速度。EDS-518A 交換器還支援進階管理和安全功能。

附加特色與優點

- 命令列介面 (CLI) 快速設定主要網管功能
- DHCP Option 82 適用於以不同原則指派 IP 位址
- 支援 EtherNet/IP 和 Modbus TCP 通訊協定，以進行裝置管理和監控
- 相容於 PROFINET 通訊協定，可進行透明資料傳輸
- 支援 ABC-01-USB (自動備份配置程式) 進行系統配置備份
- IGMP snooping 和 GMRP，用於篩選多點傳送流量
- 可基於連接埠實現 VLAN、IEEE 802.1Q VLAN 以及 GVRP，以簡化網路規劃
- QoS (IEEE 802.1p 和 TOS/DiffServ) 提高可靠性
- 網路埠端口聚合功能提供最佳頻寬使用率
- SNMPv1/v2c/v3，適用不同層級的網路管理
- RMON 提供主動且有效率的網路監控
- 頻寬管理可防止無法預測的網路狀態
- 發生例外狀況時透過電子郵件和繼電器輸出自動發出警告

規格

Input/Output Interface

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
100BaseFX Ports (multi-mode ST connector)	EDS-518A-MM-ST Series: 2

1. Gigabit 乙太網路復原時間 < 50 ms

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-Mode	
	Fiber Cable Type		OM1	50/125 μm	G.652	
				800 MHz x km		
	Typical Distance		4 km	5 km	40 km	
	Wavelength	Typical (nm)	1300		1310	
		TX Range (nm)	1260 to 1360		1280 to 1340	
		RX Range (nm)	1100 to 1600		1100 to 1600	
	Optical Power	TX Range (dBm)	-10 to -20		0 to -5	
		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 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).					
	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, DDMP, DHCP Option 66/67/82, DHCP Server/Client, Flow control, RARP, RMON, SMTP, SNMP Inform, Syslog, Telnet, TFTP
MIB	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, 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

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 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Maritime	DNV-GL, NK
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Freefall	IEC 60068-2-31

MTBF

Time	250,966 hrs
Standards	Telcordia (Bellcore), GB

Warranty

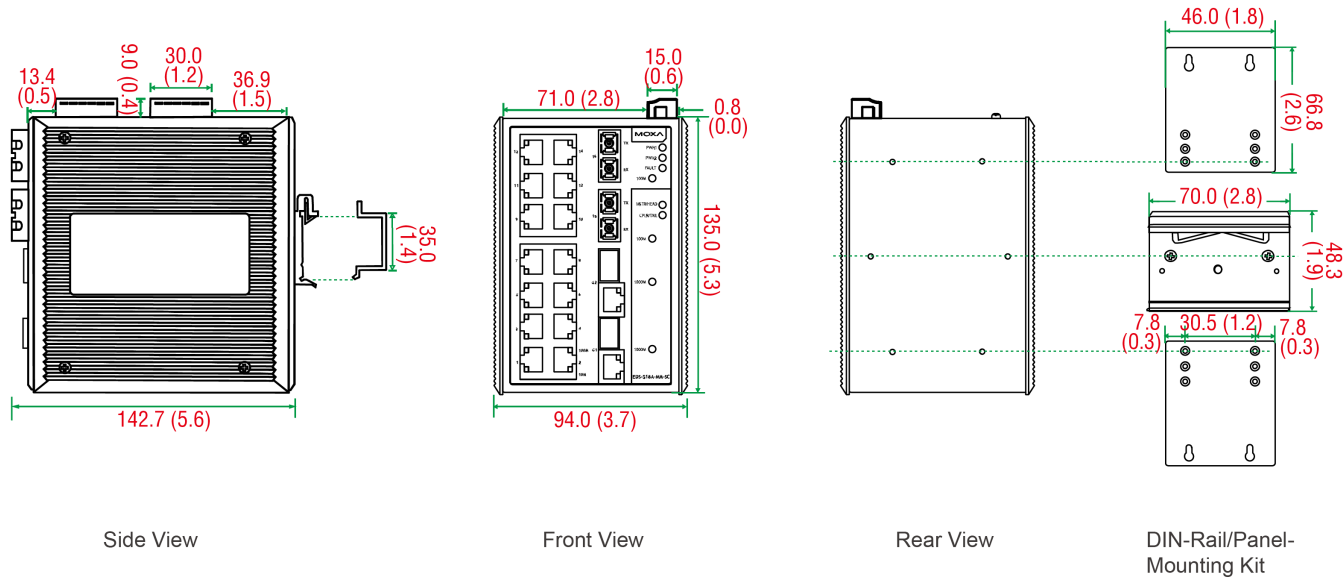
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x EDS-518A 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 SFP slot 2 x cap, plastic, for SC fiber port (-SC models) 2 x cap, plastic, for ST fiber port (-ST models)
Documentation	1 x quick installation guide 1 x warranty card 1 x product certificates of quality inspection, Simplified Chinese 1 x product notice, Simplified Chinese
Note	SFP modules need to be purchased separately for use with this product.

尺寸

單位：公釐（英吋）



訂購資訊

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

配件（選購）

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

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)

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
-------	---------------------------

© Moxa Inc. 版權所有. 2021 年 4 月 15 日更新。

未經 Moxa Inc. 明確書面許可，不得以任何方式複製或使用本文件及其任何部分。產品規格如有變更，恕不另行通知。請至本公司官網了解最新的產品資訊。