EDS-210A Series

8+2G/9+1G-port Gigabit unmanaged Ethernet switches

> Up to 2 Gigabit uplinks for high bandwidth data aggregation
> Multiple fiber ports with up to 4 100BaseSFP port combinations for maximum flexibility
> IP30 metal housing
> Redundant dual power input (12/24/48 VDC)
> -40 to 75°C operating temperature range (T model only)

CE FC

: Introduction

The EDS-210A series 10-port industrial Ethernet unmanaged switches provide up to 2 Gigabit Ethernet ports and are ideal for applications that require high-bandwidth data convergence. In particular, the EDS-210A-1GSFP-1SFP is equipped with 1 Gigabit fiber SFP slot, whereas the EDS-210A-1GTX-1GSFP-4SFP is equipped with 1 Gigabit fiber SFP slot and 1 Gigabit copper port.

The EDS-210A unmanaged switches are also equipped with multiple 100M ports, up to 4 100BaseSFP slots, and 8 100BaseTX copper ports for maximum flexibility in port combinations and long-distance communications.

The EDS-210A series provides 12/24/48 VDC redundant power inputs, rugged IP30-rated metal housing, DIN rail mounting, and high level EMI/EMC capability. In addition to its compact size for space-saving installation, each EDS-210A has passed a 100% burn-in test to ensure its quality. Moreover, the EDS-210A series has an operating temperature range of -10 to the 60°C with wide temperature (-40 to 75°C) models also available.

All of these features make the EDS-210A ideal for applications that require high-bandwidth transmission and data converge for uplink, such as video surveillance, tolling systems, ITS, and factory automation.

: Specifications

Technology
Standards:
IEEE 802.3 for 10BaseT
IEEE 802.3u for 100BaseT(X)
IEEE 802.3ab for 1000BaseT
IEEE 802.3z for 1000BaseX
Processing Type: Store and Forward
Flow Control: IEEE 802.3x flow control, back pressure flow control

Switch Properties
MAC Table Size: 8 K
Packet Buffer Size: 1 Mbit

Interface
EDS-210A-1GSFP-1SFP Series:
Fiber Ports: 100BaseSFP slot and 1000BaseSFP slot
RJ45 Ports: 10/100BaseT(X) auto negotiation speed, full/half duplex mode, and auto MDI/MDI-X connection
LED Indicators: PWR1, PWR2, 100M (fiber port), 1000M (fiber port), 10/100M (TP port)
EDS-210A-1GTX-1GSFP-4SFP Series:
Fiber Ports: 100BaseSFP slot and 1000BaseSFP slot
RJ45 Ports: 10/100/1000 BaseT(X), 10/100BaseT(X) auto negotiation speed, full/half duplex mode, and auto MDI/MDI-X connection
LED Indicators: PWR1, PWR2, 100M (fiber port), 1000M (fiber port), 10/100M (TP port), 10/100/1000M (TP port)

Power Requirements
Input Voltage: 12/24/48 VDC (9.6 to 60 VDC), redundant dual inputs
Input Current:
EDS-210A-1GSFP-1SFP: 0.45 A @ 24 V
EDS-210A-1GTX-1GSFP-4SFP: 0.45 A @ 24 V
Overload Current Protection: 0.125
Connection: 2 removable 2-contact terminal block
Reverse Polarity Protection: Present

Physical Characteristics
Housing: Metal, IP30 protection
Dimensions:
45.8 X 134 X 105 mm (1.8 X 5.28 X 4.13 in)
Weight:
EDS-210A-1GSFP-1SFP: 520 g
EDS-210A-1GTX-1GSFP-4SFP: 570 g
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: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications
Safety: UL 508 (pending)
EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A
EMS:
EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3,
EN 61000-4-4 (EFT) Level 3, EN 61000-4-5 (Surge) Level 3,
EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN 61000-4-11
Shock: IEC 60068-2-27
Freefall: IEC 60068-2-32
Vibration: IEC 60068-2-6
Note: Please check Moxa's website for the most up-to-date certification status.

MTBF (mean time between failures)
Time: EDS-210A-1GSF-1SFP: 2,469,233 hrs
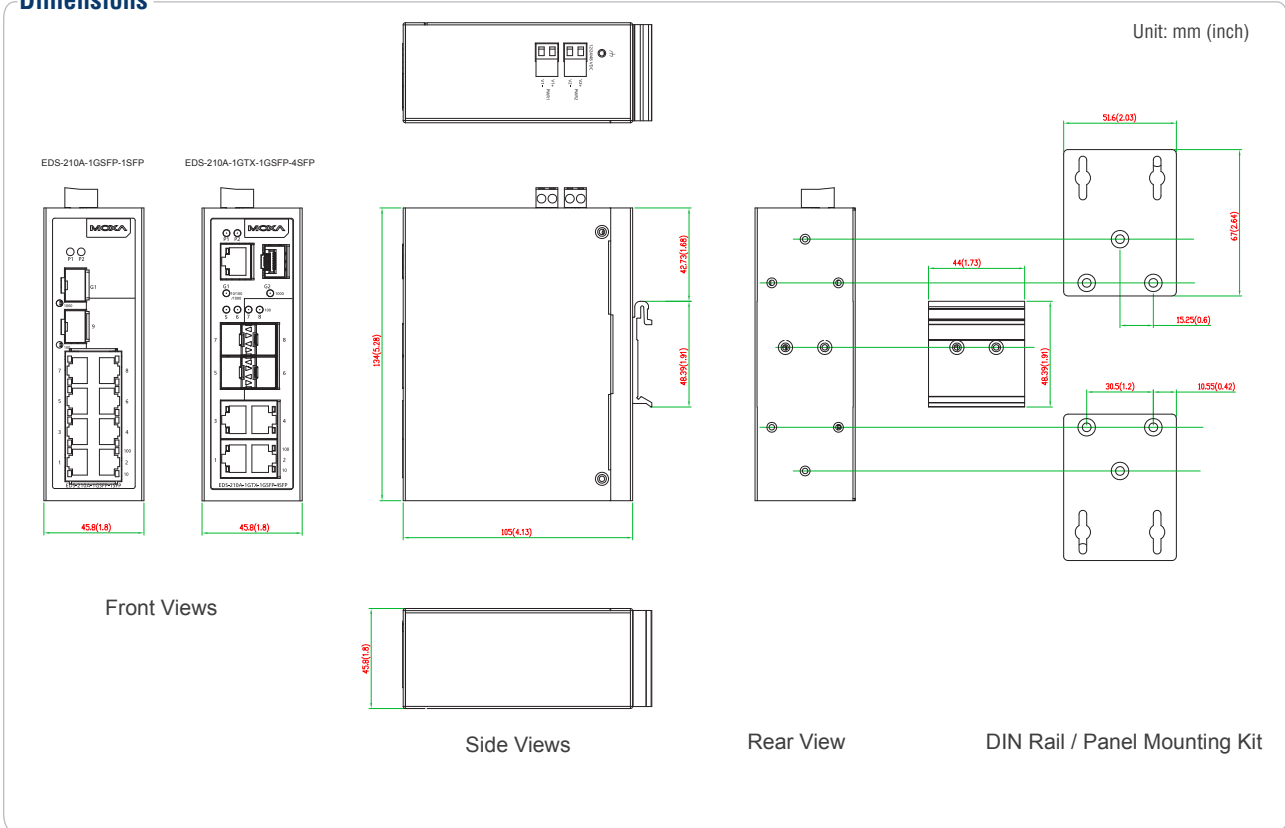EDS-210A-1GTX-1GSF-4SFP: 2,485,402 hrs
Database: Telcordia (Bellcore), GB
Warranty
Warranty Period: 5 years
Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)

Front Views

Side Views

Rear View

DIN Rail / Panel Mounting Kit

⋮ Ordering Information

Available Models		Port Interface			
		Gigabit Ethernet		Fast Ethernet	
Standard Temperature (-10 to 60°C)	Wide Temperature (-40 to 75°C)	10/100/1000 BaseT(X)	1000BaseSFP	100BaseSFP	10/100BaseT(X)
EDS-210A-1GSFP-1SFP	EDS-210A-1GSFP-1SFP-T	0	1	1	8
EDS-210A-1GTX-1GSFP-4SFP	EDS-210A-1GTX-1GSFP-4SFP-T	1	1	4	4

Note: The EDS-210A series supports 100BaseSFP and 100/1000BaseSFP slots. See below for SFP-1G/1FE series SFP module product information.

Optional Accessories (can be purchased separately)
DR-4524/75-24/120-24: 45/75/120 W DIN rail 24 VDC power supplies
MDR-40-24/60-24: 40/60 W DIN rail 24 VDC power supplies, -20 to 70°C operating temperature
WK-51: Wall mounting kit
RK-4U: 4U-high 19" rack mounting kit

Package Checklist
- EDS-210A switch
- Hardware installation guide (printed)
- Warranty card