

# EDS-405A/408A-EIP Series

*5 and 8-port managed Ethernet switches with Ethernet/IP enabled*



- > EtherNet/IP and IGMP snooping enabled by default
- > Port mirroring, QoS, IEEE 802.1Q VLAN, and port-based VLAN supported
- > EtherNet/IP EDS (Electronic Data Sheet) file, custom AOI (Add On Instructions) file, and FactoryTalk® View faceplate included



## Introduction

The EDS-405A/408A-EIP are 5 and 8-port managed Ethernet switches with EtherNet/IP enabled. With Ethernet/IP embedded, the EIP switches are visible with custom faceplate in FactoryTalk® View industrial management software, for greater operational and network

visibility in factory automation HMIs. The EDS-405A/408A-EIP also supports a variety of useful management functions, such as IGMP snooping, IEEE 802.1Q VLAN, QoS, port mirroring, SNMP, bandwidth management and warning by email or relay.

## Features and Benefits

- Command Line Interface (CLI) for quickly configuring major managed functions
- IPv6 Ready logo awarded (IPv6 Logo Committee certified)
- DHCP Option 82 for IP address assignment with different policies
- Support EtherNet/IP and Modbus/TCP protocols for device management and monitoring
- Ethernet/IP EDS (Electronic Data Sheet) file, custom AOI (Add-On Instructions) and FactoryTalk® View faceplate available
- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches), and RSTP/STP for network redundancy
- 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
- RMON for efficient network monitoring and proactive capability
- SNMPv1/v2c/v3 for different levels of network management security
- Bandwidth management to prevent unpredictable network status
- Port mirroring for online debugging

## Specifications

### Technology

#### Standards:

- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseT(X)
- IEEE 802.3x for Flow Control
- IEEE 802.1D-2004 for Spanning Tree Protocol
- IEEE 802.1w for Rapid STP
- IEEE 802.1p for Class of Service
- IEEE 802.1Q for VLAN Tagging

**Protocols:** IGMPv1/v2, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, TFTP, SNTP, SMTP, RARP, RMON, HTTP, Telnet, Syslog, DHCP Option 66/67/82, BootP, LLDP, EtherNet/IP, Modbus/TCP, IPv6, NTP Server/Client

**MIB:** MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9

**Flow Control:** IEEE 802.3x flow control, back pressure flow control

### Switch Properties

**MAC Table Size:** 2 K (EDS-405A-EIP), 8 K (EDS-408A-EIP)

**Packet Buffer Size:** 1 Mbit

### Interface

**RJ45 Ports:** 10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection

**Console Port:** RS-232 (RJ45 connector)

**DIP Switches:** Turbo Ring, Master, Coupler, Reserve

**LED Indicators:** PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M

**Alarm Contact:** 1 relay output with current carrying capacity of 1 A @ 24 VDC

### Power Requirements

**Input Voltage:** 24 VDC (12 to 45 VDC), redundant dual inputs

#### Input Current:

EDS-405A-EIP: 0.24 A @ 24 V

EDS-408A-EIP: 0.26 A @ 24 V

**Overload Current Protection:** Present

**Connection:** 1 removable 6-contact terminal block

**Reverse Polarity Protection:** Present

### Physical Characteristics

**Housing:** Metal, IP30 protection

**Dimensions:** 53.6 x 135 x 105 mm (2.11 x 5.31 x 4.13 in)

**Packing Size:** 19.2 x 16.8 x 9.3 cm

**Weight:** 650 g

#### Packing Weight:

EDS-405A-EIP series: 1140 g

EDS-408A-EIP series: 1220 g

**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:** -40 to 85°C (-40 to 185°F)  
**Ambient Relative Humidity:** 5 to 95% (non-condensing)  
**Standards and Certifications**  
**Safety:** UL 508, UL 60950-1\*, CSA C22.2 No. 60950-1, EN 60950-1\*\*  
**Hazardous Location:** UL/cUL Class I Division 2 Groups A/B/C/D\*, ATEX Zone 2 Ex nC IIC\*  
**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  
**Marine:** DNV, GL  
**Traffic Control:** NEMA TS2  
**Rail Traffic:** EN 50121-4\*\*  
**Shock:** IEC 60068-2-27  
**Freefall:** IEC 60068-2-32

**Vibration:** IEC 60068-2-6  
 \* EDS-405A/408A-EIP  
 \*\* EDS-408A-EIP only  
 Note: Please check Moxa's website for the most up-to-date certification status.

**MTBF** (mean time between failures)

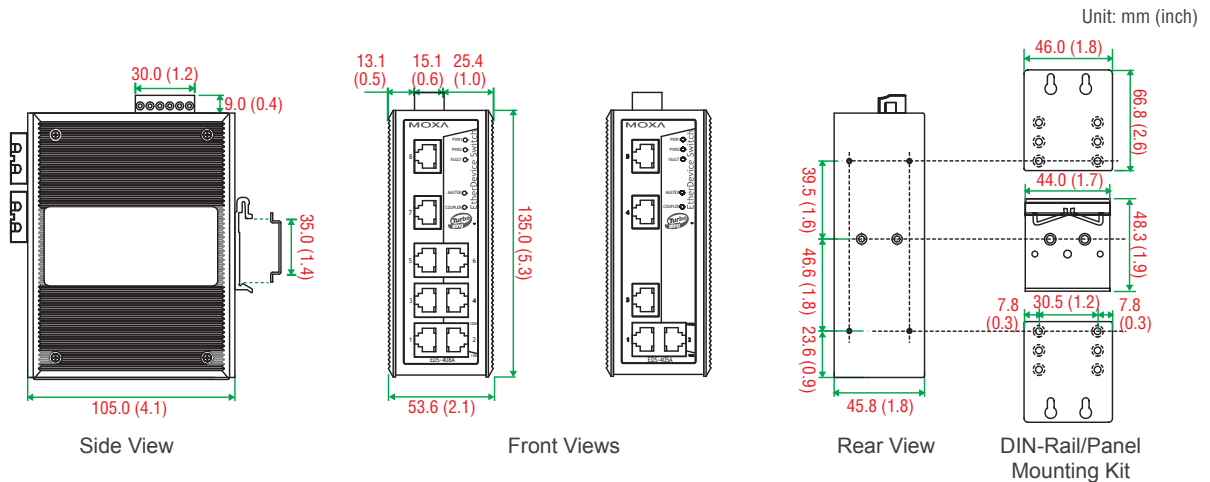
**Time:**  
 EDS-405A-EIP Series: 392,000 hrs  
 EDS-408A-EIP Series: 363,000 hrs

**Database:** Telcordia (Bellcore), GB

**Warranty**

**Warranty Period:** 5 years  
**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

**Dimensions**



**Ordering Information**

Available Models		Port Interface			
Standard Temperature (0 to 60°C)	Wide Temperature (-40 to 75°C)	10/100BaseT(X)	100BaseFX		
			Multi-mode, SC Connector	Multi-mode, ST Connector	Single-mode, SC Connector
EDS-405A/408A-EIP	EDS-405A/408A-EIP-T	5/8	-	-	-

**Optional Accessories** (can be purchased separately)

- MXview:** Moxa industrial network management software with 50, 100, 250, 500, 1000, or 2000 nodes
- EDS-SNMP OPC Server Pro:** OPC server software that works with all SNMP devices
- ABC-01:** Configuration backup and restoration tool for managed Ethernet switches, 0 to 60°C operating temperature
- 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-46:** Wall mounting kit
- RK-4U:** 4U-high 19" rack mounting kit

**Package Checklist**

- EDS-405A-EIP or EDS-408A-EIP switch
- RJ45 to DB9 console port cable
- Protective caps for unused ports
- Documentation and software CD
- Hardware installation guide (printed)
- Warranty card

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

*počítače, tablety, LCD, klávesnice, ...*



### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.