

EVA 4P+SFP N-MAN • EVA 8P+SFP N-MAN

Gigabit Industrial Unmanaged Switches with 2 SFP ports

Product Highlights

Robust Design

High EMC endurance, fanless design, and a wide operating temperature range combined with an IP40 housing to withstand harsh operating environments.

Flexible Deployment

Plug-and-Play compact form factor design that supports multiple mounting options to allow for flexible and swift deployment

Flexible Options

Wide selection of port density and support provides customer with the flexibility to choose the right switch that best fits their requirement.



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Features

Flexible Availability

- SFP ports for long distance connections
- Plug-and-Play installation
- DIN rail mounting

Robust and High-Redundancy Design

- Fanless, passive cooling design
- Wide operating temperature (-40 ~ 75 °C)
- High EMC endurance
- IP40-rated metal casing
- Dual power input for redundant power supplies
- 6kV surge protection on all copper ports

Advanced Features

- 9 KB Jumbo Frame
- IEEE 802.3x Flow Control
- IEEE 802.1q Quality of Service (QoS)
- IEEE802.3az Energy Efficient Ethernet

Environmental Tests

- IEC 60068-2-27 Shock
- IEC 60068-2-32 Freefall
- IEC 60068-2-6 Vibration

The EVA Series Industrial Gigabit Unmanaged Switches are designed specifically to withstand wide temperature range, vibrations and shock. These rugged, yet easy to deploy, switches have superior environmental specification compared to those of commercial network switches. With its hardened design combined with high availability network features, these switches form vital parts of any network infrastructure facilitating the increasing demand for smart cities, city-wide surveillance and wireless connectivity. The EVA Series Unmanaged Switches are designed for supporting standard industrial applications without complex setup to make the network truly plug-and-play.

Customers

The EVA family of switches is ideal for customers looking for a entry-level Ethernet switch for industrial environments. These unmanaged switches offer plug & play installation, ideal for network edge deployment.

Application

- Challenging environmental conditions
- High ambient temperatures

Market

- Heavy industrial / factory automation
- Intelligent transport system (ITS) / railway applications
- City surveillance / smart cities

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TECHNICAL CHARACTERISTICS

General	EVA 4P+SFP N-MAN	EVA 8P+SFP N-MAN
Number of Ports	• 4 x 10/100/1000BASE-T ports • 2 x SFP ports	• 8 x 10/100/1000BASE-T ports • 2 x SFP ports
Port Functions	<ul style="list-style-type: none"> • IEEE 802.3 for Ethernet • IEEE 802.3u for Fast Ethernet • IEEE 802.3ab for Gigabit Ethernet • IEEE 802.3z for Gigabit fiber • IEEE 802.3x Flow Control • IEEE 802.3az Energy-Efficient Ethernet (EEE) 	
Media Interface Exchange	Auto-MDI/MDIX adjustment for all twisted pair ports	
Performance		
Switching Capacity	12 Gbit/s	20 Gbit/s
Maximum Forwarding Rate	8,928 Mpps	14,88 Mpps
MAC Address Table Size	Up to 4K entries	
Transmission Method	Store-and-forward	
Jumbo Frame	9,6 Ko	
Advanced Features	IEEE 802.1p Quality of Service (QoS) -8 hardware queues per port	
Physical		
Diagnostic LEDs	PWR, SFP, Link/Activity	
Power Input	12 to 48 V DC terminal block dual input	
Power Consumptions	<ul style="list-style-type: none"> • Maximum : 4,82 W • Standby : 2,45 W 	<ul style="list-style-type: none"> • Maximum : 7,44 W • Standby : 2,64 W
Alarm Relay	1 A at 24 V	
Heat Dissipation	16,44 BTU/hr	25,37 BTU/hr
Weight	0,4458 kg	0,4977 kg
Dimensions	162 x 102 x 28 mm	190 x 100 x 28 mm
Ventilation	Fanless, passive cooling	
Operating Temperature	-20 to 65 °C	
Storage Temperature	-40 to 85 °C	
Operating Humidity	5% to 95% RH, non-condensing	
Storage Humidity	5% to 95% RH, non-condensing	
Material	IP40-rated metal casing	
Installation	DIN rail	
MTBF	569 768 hours	392,267 hours
Certifications	CE, FCC	
EMI	47 CFR FCC Part 15 Subpart B (Class A), ICES-003 Issue 6 (Class A)	
EMS	EN 61000-4-2 ESD, EN 61000-4-3 RS, EN 61000-4-4 EFT, EN 61000-4-5 Surge, EN 61000-4-6 CS, EN 61000-4-8	
Environmental Tests	IEC 60068-2-27 Shock, IEC 60068-2-32 Freefall, IEC 60068-2-6 Vibration	