

Available Products

Ethernet Switching

Field PoE Switch

Rail PoE Switch

Managed Switch

Ethernet I/O

Modbus/TCP – 4AI, 4DI, 2DO

Modbus/TCP – 8 DI, 4 Frm A

Serial I/O

Modbus/RS485 – 4AI, 4DI, 2DO

Modbus/RS485 – 8 DI, 4 Frm A

Rail PoE Ethernet Switch

The EMF-ESW01 is an unmanaged industrial Ethernet switch that supports power delivery using the 802.3af Power over Ethernet (PoE) standard.

Power Over Ethernet

The EMF-ESW01 will transmit power, along with data, over an Ethernet network and is ideal choice for supporting any Emfinity or third party PoE field device.

Power over Ethernet is used to power PoE capable devices where running an AC power feed is either not possible or cost effective. This feature allows a wireless access point, network camera or any other PoE capable device without the need for running separate cabling for power.

The EMF-ESW01 has been specifically designed for industrial applications, and is able to deliver over 30 watts to a power to a powered device, twice the power capability of a standard switch.

Ethernet Switching

The EMF-ESW01 industrial Ethernet switch is designed to solve the most demanding industrial communications requirements by providing high throughput and minimum downtime.

Specific features of the switch increase performance in an industrial environment. The ability to learn 2048 MAC addresses ensures that even a small switch can handle a large network. As well, the 802.1p priority queuing enhances real time performance and voice quality on loaded networks.

Specifications

Ethernet Network

Ports	5 100BaseTX, 4 with PoE, 1 Uplink
Auto Crossover	All Ports
Management	Unmanaged
MAC Addresses	2048
QOS Support	IEEE 802.1p, 802.1q

Power over Ethernet

Type	802.3af Type A (Power on communication pairs)
Output Voltage	56 Vdc
Supply Current	650mA per port

Power Requirements

Input Voltage	24 – 50 Vdc
Minimum Power	3 Watts, no PoE devices attached
Maximum Power	120 Watts, maximum PoE provided on each port

Physical Parameters

Dimensions	4.25 x 2.75 x 2.25 "
Rating	IP54
Mounting	DIN Rail, 35 mm
Housing	Polycarbonate, UL94-V0
Operating Temp	-40 to 85 deg C
Storage Temp	-40 to 85 deg C

Features

Industrial Hardware

- 5 port truly industrial Ethernet switch
- Wide power input range allows the use of existing 24V power in the cabinet
- Small form factor eases installation
- Industrial rated -40 to +85 °C operation
- Standard DIN rail mounting

Networking

- Wire speed switching
- Support for up to 2048 MAC addresses
- Automatic address learning and aging
- Auto crossover (MDI/MDIX) on each port
- 802.1q Priority queuing for real-time network performance
- Message filtering to prevent broadcast storms

Power over Ethernet

- Input voltage boost circuitry increases output voltage, allowing more power to be transferred to the client.
- High current limit of 650 mA
- PoE voltage of 56 can be created from a 24V input supply, allowing existing power supplies to be used.