# FiberPlex<sup>™</sup> Industrial Gigabit Managed PoE+ Switch

# Model FP2008E/AT



The FP2008E/AT is an industrial-grade, 10-port 10/100/1000 L2 Managed Power over Ethernet switch ideally suited for Industrial Ethernet communications over a moderate bandwidth Gigabit fiber trunk. Layer 2 management enables this switch to provide reliable redundant connectivity throughout your network.

## System Interface/Performance

- Supports auto MDI/MDI-X function
- 10 ports include 8 10/100/1000TX RJ45 IEEE802.3at/af (30W) compliant ports and 2 100/1000 SFP cages
- Network redundancy features:
  - Spanning Tree: RSTP/MSTP
  - Ring Protection: G.8032 ERPS
- Traffic prioritization features:
  - IEEE802.1Q VLAN
- IEEE802.1p; CoS/ToS
- IGMPv1/v2 up to 256 groups
- 8K MAC address table
- 9.6K Jumbo frame supports
- ESD protection: 6,000 VDC

#### Power Input

- Redundant power input design: 48–55 VDC
- Built-in relay output for power failure detection
- PoE+ Ping Alarm for PoE+ port power cycling
- Surge protection: 2,000 VDC support

## Extended Operating Temperature

• -40 to 167°F (-40 to 75°C)

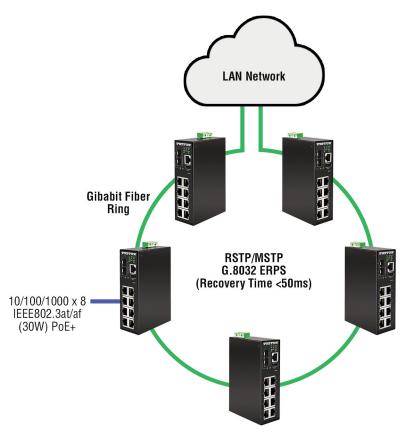
## Case/Installation

- IP30 rugged metal case
- DIN-rail and wall mount support

Patton's FP2008E/AT Managed Industrial Gigabit Power Over Ethernet Switch supports industrial applications requiring high bandwidth or high density connections. The FP2008E/AT is a fully manageable Layer 2 PoE+ switch, pre-loaded with a user-friendly web management console design. Ring network redundancy is provided by MSTP/RSTP and open standard ITU-T G.8032 ERPS (Ethernet Ring Protection Switch) protocol which has a < 50ms network recovery time. Advanced L2 network filtering and prioritization include IGMP, VLAN, QoS/CoS/ToS. Efficient monitoring and security can be achieved through SNMPv1/v2/v3, RMON, port mirroring, 802.1x, HTTPS, SSH/SSL.

The FP20208E/AT is housed in a sturdy IP30-rated DIN-rail enclosure with wall mount options. The physical layer interfaces include  $8 \times RJ45 \ 10/100/1000$  Ethernet ports, capable of providing up to 30W of PoE+ to PoE+ enabled end-points and two Gigabit SFP+ slots that can be used for fiber trunk connections. To ensure operation in harsh environmentsk, the FP2008E/AT provides additional EFT and ESD protection that prevents unregulated voltage or harmful transients, and has an operating temperature rating of -40 to 167°F (-40 to 75°C).

Visit patton.com/ for more information.





# Specifications

#### Copper Ethernet (PoE+) Port

8 x RJ45 10/100/1000 (PSE: 30W/port) auto MDI/MDI-X

#### Fiber Ethernet Port

2 x GigE SFP cages Wavelength: Refer to patton.com/SFP-OC

RS232 Console Port 1 x RJ45, 115.2kbps, 8, N, 1

USB2.0 Port Configuration Backup

#### Switching Properties

Backplane (Switching Fabric): 10 Gbps Processing Type: Store and Forward Transfer Rate:

- 14,880pps for 10Base-T Ethernet
- 148,800pps for 100Base-T Fast Ethernet

 1,488,000pps for Gigabit Ethernet Jumbo Frame: 9.6 Kbytes
MAC Table Size: 8K
Packet Buffer: 4 Mbits
VLAN Group: 1–4,094
IGMP Group: Up to 256 groups

#### Networking Standards

IEEE 802.3 10Tx Ethernet IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control for Full Duplex IEEE 802.3ad for Port Trunk with LACP IEEE 802.1d STP (Spanning Tree Protocol) IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)

ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switch) Protocol

IEEE 802.1Q for VLAN Tagging IEEE 802.1x for Network Authentication IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization

#### Additional Standards

IGMPv1/v2, SNMPv1/v2c/v3, TFTP, SNTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog,

DHCP Option 66/67/82, SSH/SSL, Modbus/TCP, LLDP, IPv4/IPv6

#### Power

Power Consumption:

- 215 Watts @ 48 VDC
- 255 Watts @ 51–55 VDC
- PoE+ Power Output:
- 25 Watts @ 48 VDC

 30 Watts @ 51–55 VDC Input Voltage: 48–55 VDC Redundant Input (with 1 removable 6-contact terminal block) 100–240 VAC adapter (optional)

#### Protection

Reverse Polarity Overload Current CPU Watchdog

#### Temperature

Operating: -40 to 167°F (-40 to 75°C) Storage: -40 to 185°F (-40 to 85°C)

#### Ambient Relative Humidity

5 to 95%, (non-condensing)

#### Housing

Metal, IP30 protection, DIN-Rail Mounting (wall mounting bracket is also included)

#### Dimensions

2.12W x 3.89D x 5.59H in. (54W x 99D x 142H mm)

#### Weight

Unit Weight: 2.5 lbs (1.13 kg) Shipping Weight: 3.0 lbs (1.36 kg)

#### Certifications

FCC, CE, UL 61010-1 UL 61010-2-201 Class 1 Div 2

#### EMI

FCC Class A

#### EMS

IEC61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-8 IEC61000-6-2, 6-4

#### Free fall / Shock / Vibration

IEC60068-2-32 / IEC60068-2-27 / IEC60068-2-6



Specifications subject to change without notice



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