

# 6 Port 10/100/1000 Light Industrial Ethernet Switch

Model FiberPlex 1004E



*The FP1004E is a Light Industrial Grade, 6 Port 10/100/1000 Ethernet Switch with 4 Copper Ports and 2 SFP Optical Ports.*

- Flow control for full duplex and half duplex
- Supports up to 10k byte JUMBO frame
- Supports port-based VLANs and tag-based VLANs
- Extended temperature -10 to 70°C
- Power adapter included

Elegantly simple yet packed with an advanced feature set, the FP1004E is a powerful 6-port 10/100/1000 Light Industrial Ethernet switch. The unit features 4 RJ-45 UTP ports as well as 2 flexible SFP ports. Two or more FP1004E Ethernet switches can be chained together via fiber to provide a distributed solution where isolation, distance, security and/or noise immunity is needed between nodes.

Locally, an 8-copper x 2-optical switch can be created using a passive SFP cable assembly between SFP ports. This cable saves cost by replacing 2 optical modules and a fiber cable with an inexpensive copper jumper. While this solution is only good for very short 'jumper' lengths, it provides flexibility for local port expansion.

The FP1004E is housed in the commercial 'Throw Down' packaging. This version is designed to be a work horse unit in various commercial and industrial environments. It is powered by a 9-VDC AC power adapter (included) or via bused power supplied through an integrated 3-pin Phoenix™ connector. Up to 3 FP1004E units can be installed in the optional 1U TDR-01 rack shelf or DIN rail mounted.

The flexibility of the SFP ports allows for full 1000BASE-X support standard. Simply by selecting the appropriate SFP module a standards compatible GbE port can be created. Each SFP can actually be configured separately; this can be useful if networks based on two different standards needs to be bridged.

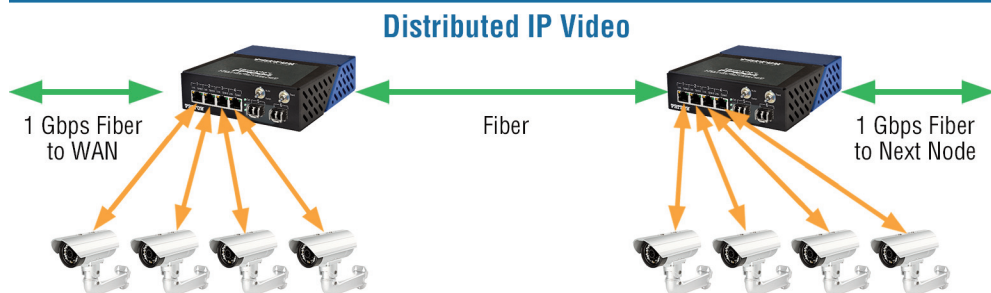
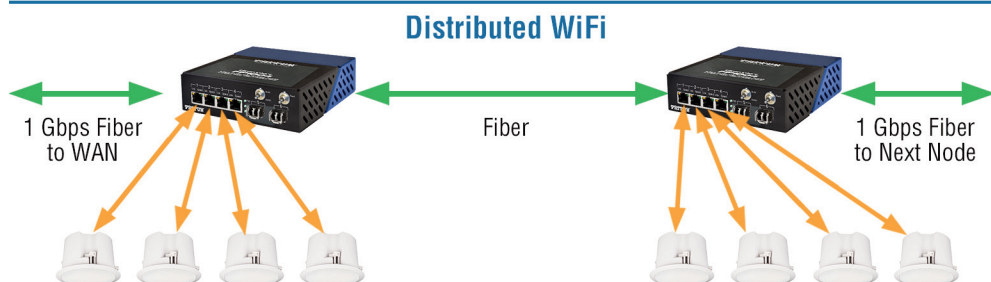
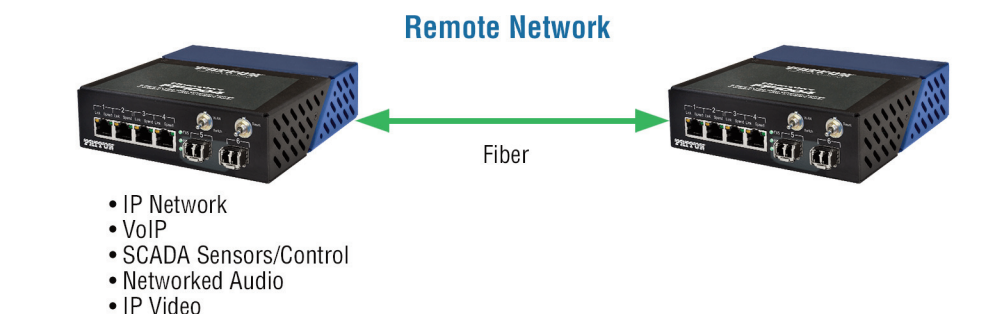
Contact us for more information at [sales@patton.com](mailto:sales@patton.com).



# FP1004E 10/100/1000 Ethernet Switch

## Applications

The FP1004E is suitable for VOIP, SCADA, Physical Security, IT Infrastructure, Industrial Controls or Networked Audio applications



## Specifications

### Electrical Specifications

#### Environmental

Storage Temperature:

- Min: -40°C
- Max: 85°C

Operating Temperature:

- Min: 0°C
- Max: 50°C

#### Power Requirement

Voltage Range:

- Typ: 9 VDC

Supply Current:

- 1340 mA

#### Phoenix Mating Plug 3 Position

#### Power

Wire Accepted:

- Min: 14 AWG
- Max: 28 AWG

Nominal Voltage:

- 300 V

Nominal Current:

- 8 A

#### Power Adapter Connection

- Standard 5.5 x 2.1 mm DC barrel, center positive

### Optical Specifications

#### External SFP Interface

Data Rate:

- Typ: 1.25 Gbps

Recommended Jitter:

- 40 Psec

Operating Voltage:

- Typ: 3.3 VDC

Maximum Current:

- Typ: 500 mA

Optical Modules:

- SFP MSA (SFF-8431, SFF-8432, SFF-8433) compliant slot, data rate 1.25 Gbps OC24

### Physical Specifications

#### Case Dimensions

5.63L x 5.50W x 1.66H inch  
14.3L x 14.0W x 42H cm)

#### Weight

0.6 lb (0.3 kg)



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Specifications subject to change without notice