



4 FE PoE + 1 FE Industrial Switch



IFE-0500

H/W Version: 1

The LevelOne IFE-0500 4-Port 10/100 PoE and 1-port TP Industrial Fast Ethernet Switch combines PoE capability and 4-port switching into a small heavy-duty metal casing for Industrial PoE applications. The IEEE802.3af Power over Ethernet compliant switch connects to a 48V DC power source to provide power and 10/100Mbps data transmission over Ethernet cabling to attached devices.

Industrial PoE Application

The IFE-0500 Industrial PoE Switch is designed for network devices operating in harsh environments. The ports and PoE injector are enclosed in a robust and durable metal casing. The switch is easily installed at network edges where AC power is not always available. In addition, the 48V AC-DC Power Supply Package* can be equipped with IFE-0500 at the place where lacking of DC power support; this package can allow the AC power source be transformed into DC 48V power and work with terminal block DC input on IFE-0500.

The switch is built to operate between -10°C to 60°C in 95% non-condensing humidity and is suitable

for covered outdoor installation. Mounting options include wall-mounting, DIN-rail mounting and stand-alone panel mounting.

Extending the Network

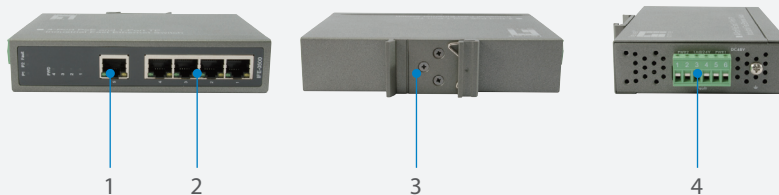
The 1-Port TP port links the IFE-0500 to a network to provide network extendibility to network edges where few AC power outlets are located. The port support Auto MDI/MDI-X and the switch uses standard Store-and-Forward switching architecture with a 1Gbps backplane and 1K MAC address table.

Auto-Sensing Connected PD Devices

The IFE-0500 features auto-sensing for providing power to IEEE 802.3af PoE compliant attached PD devices. This ensures that non-PoE devices are not damaged by unnecessary power when connected.

The IFE-0500 also supports over-current protection, under-current detection and fault protection.

*Power supply package is not included



- 1. Fast Ethernet RJ-45 Port
- 2. Fast Ethernet PoE RJ-45 Ports
- 3. DIN-Rail
- 4. Terminal Block DC Input

Key Features

- Industrial PoE Switch for harsh network applications
- 4-port 10/100 TX with embedded PoE injector
- 1-port 10/100 TP for connecting to LAN
- Over-current protection
- Features Auto-sensing for detecting PoE or non-PoE devices
- Rigid metal casing for covered outdoor application
- DIN-Rail, wall-mounting and stand-alone installation

Related Products



IFE-0501
4 FE PoE + 1 FE Multi-Mode SC Industrial Switch (2km)



IFE-0502
4 FE PoE + 1 FE Single-mode SC Industrial Switch (30km)

Technical Specification

Standards Compliance

IEEE 802.3 10Base-T Ethernet
 IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet
 IEEE802.3x Flow Control and Back Pressure
 IEEE802.3af Power over Ethernet

Hardware Specification

Switch Architecture

Back-plane: 1.0Gbps
 Packet throughput ability: 1.488Mpps @64bytes

Transfer Rate

14,880pps for Ethernet port
 148,800pps for Fast Ethernet port

MAC Address

1K MAC address table

Protocol

CSMA/CD

Connector

5x RJ-45 with auto MDI/MDI-X function
 Support 4 PoE injector function

Network Cable

10Base-T:
 - 2-pair UTP/STP Cat. 3, 4, 5, 5e cable
 - EIA/TIA-568 100-ohm (100m)
 100Base-TX:
 - 2-pair UTP/STP Cat. 5/5e cable
 - EIA/TIA-568 100-ohm (100m)

Physical Specification

LED

Power 1 (Green), Power 2 (Green), Fault (Red)
 Link/Activity (Green), Full duplex/Collision (Yellow)
 Feeding PoE Power (Green)

Power Supply

48V DC Redundant Power with connective removable terminal block

Power Consumption

3.4Watts (without PoE)
 57 Watts (Full load with PoE)

Operating Humidity

5%~95% (Non-condensing)

Operating Temperature

-10°C ~ 60°C (14°F ~ 140°F)

Storage Temperature

-40°C ~ 85°C

Case Dimension

IP-30, 30mm (W) x 95mm (D) x 140mm (H) (Metal case)

Installation

DIN rail kit for DIN-type cabinet install
 Wall-mount ear for wall mounting

Certification

EMI

FCC Class A
 CE EN61000-4-2/3/4/5/6/8/11/12
 CE EN61000-6-2
 CE EN61000-6-4

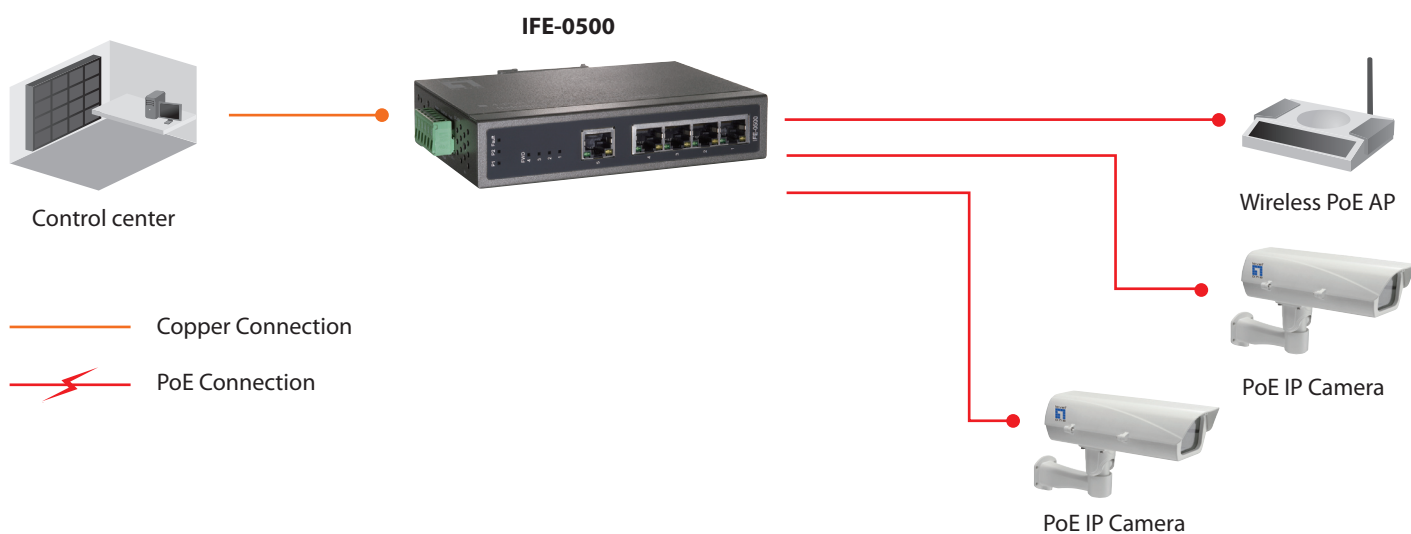
Safety

UL
 cUL
 CE/EN60950-1

Stability Testing

IEC60068-2-32 (Free fall)
 IEC60068-2-27 (Shock)
 IEC60068-2-6 (Vibration)

Product Diagram



Order Information

IFE-0500: 4 FE PoE + 1 FE Industrial Switch

POW-4801: 48V AC-DC Power Supply Package (Optional Accessories)

Package Content

IFE-0500

Pluggable Terminal Block

2 wall mount plates and 6 screws

DIN-Rail (attached on the switch)

CD Manual

POW-4801 (Accessories, not included)

48V AC-DC Power Adapter

Power Cord

DC Power Jack Converter