4-Port PoE w/ 1-Port TP Industrial Fast Ethernet Switch

Product Overview
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.

The switch is built to operate between -10°C and 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.

IFE-0500

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

Industrial PoE Switch
IFE-0500
H/W ver: v1. x
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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
DC 48V 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
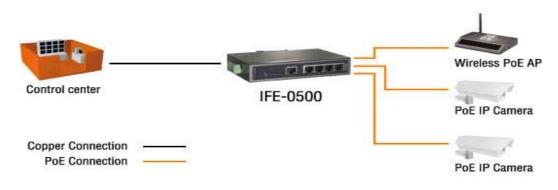- CE EN61000-6-2
- CE EN61000-6-4

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-Port PoE w/ 1-Port TP Industrial Fast Ethernet Switch

www.level1.com