



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



IFE-0501

H/W Version: 1

The LevelOne IFE-0501 4-Port 10/100TX PoE and 1-port 100Base SC 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-0501 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-0501.

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 SC Fiber port links the IFE-0501 to a network to provide network extendability to network edges where few AC power outlets are located. The fiber port supports Multi-Mode and can be connect to a network 2km away. 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-0501 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-0501 also supports over-current protection, under-current detection and fault protection.

*Power supply package is not included



1. 100Base Multi-Mode SC Fiber Connector
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 10/100TX with embedded PoE injector
- 1-port Multi-Mode SC Fiber Connector for connecting to LAN via Fiber Optic cable
- 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-0500
4 FE PoE + 1 FE Industrial Switch



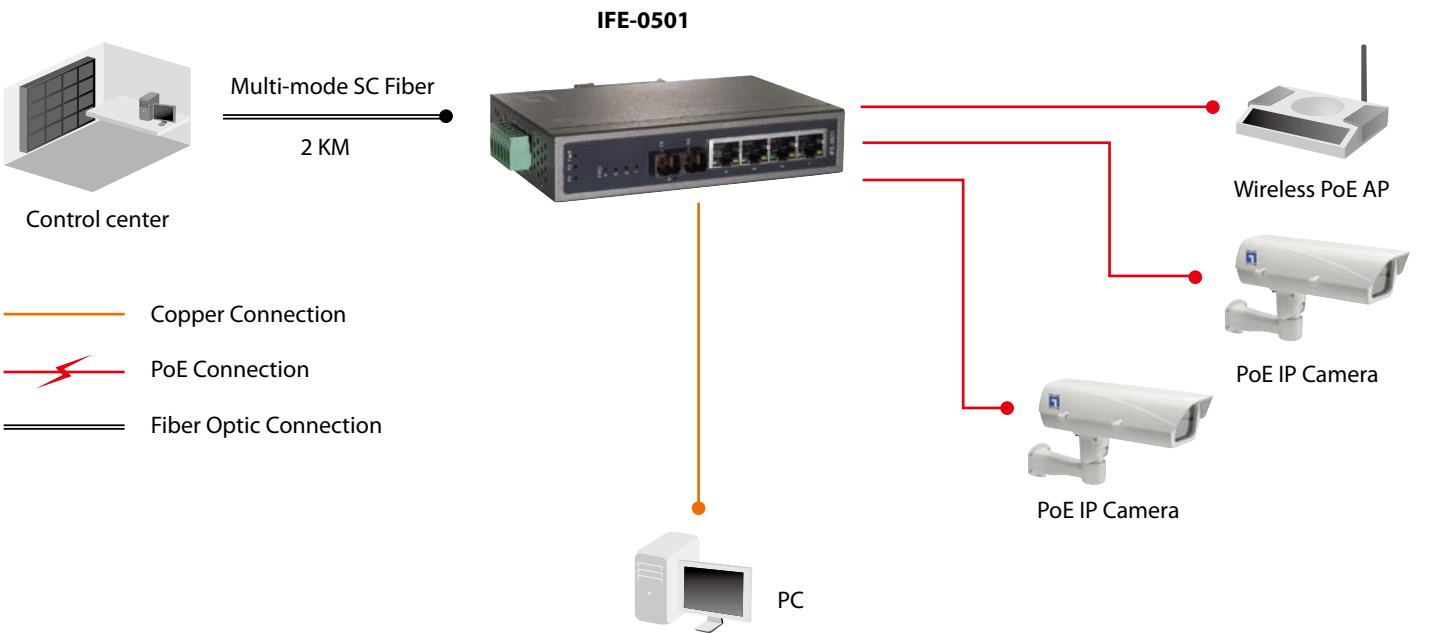
IFE-0502
4 FE PoE + 1 FE Single-mode SC Industrial Switch (30km)

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
4x RJ-45 with auto MDI/MDI-X function
1 x SC type connector for Multi-mode type fiber cable
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)
Optical Fiber
Distance: Multi mode: 2km, 1300nm
Min. TX Output: Multi mode: -20dBm, Single mode: -5dBm
Max. TX Output: Multi mode: -14dBm, Single mode: 0dBm
Sensitivity: -34 to -30dBm (Multi-mode)
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-0501: 4 FE PoE + 1 FE Multi-Mode SC Industrial Switch (2km)

POW-4801: 48V AC-DC Power Supply Package

Package Content

IFE-0501

Pluggable Terminal Block

2 wall mount plates and 6 screws

DIN-Rail (attached on the switch)

CD Manual

POW-4801

48V AC-DC Power Adapter

Power Cord

DC Power Jack Converter