

FI-MC-F-PSE Series PoE(PSE) Media Converter 4 x 10/100M RJ45 Ports + 1 x Fiber Port

Overview

The PoE Switch FI-MC-F-PSE-SM-14-20-SC / FI-MC-F-PSE-BIDI-14-20A-SC / FI-MC-F-PSE-BIDI-14-20B-SC provide power and data from a single point, using Power over Ethernet (PoE) over a single Cat-5 cable. The four RJ45 network ports + one fiber port can be used for any 10/100 Mbps link and four of these ports can supply industry-standard IEEE 802.3af power.

Advanced auto-sensing algorithm gives power only to IEEE802.3af end devices, so no need to worry about damaging proprietary PoE or non-PoE equipment. In addition, it discontinues the power when PoE devices are disconnected. Easy and reliable, the PoE Switch automatically determines PoE requirements, speed, duplex, and cable type using Auto Uplink .



Main Features

- ◆ IEEE 802.3af power on up to 4 ports
- ◆ Supply power to wireless access points and surveillance cameras over Cat-5 cabling
- ◆ 4 10/100 Mbps Ports with Auto Uplink .



- ◆ The 5 port is optical fiber SC interface of 155 Mbps
- ◆ Supports PoE power up to 15.4W for each PoE port
- ◆ Supports PoE power up to 53W for all PoE ports
- ◆ Supports PoE IEEE 802.3af compliant PDs
- ◆ Supports IEEE 802.3x flow control for Full-duplex Mode and backpressure for Half-duplex Mode
- ◆ 1K entry MAC address table of the PoE Switch with auto-learning and auto-aging
- ◆ LED indicators for monitoring power, link, activity and speed
- ◆ External power adapter supply

Target Industries

- ◆ HD monitor transmission and power supply
- ◆ Wireless AP layout transmission and power supply
- ◆ Network telephone transmission , intelligent house and home system
- ◆ Intelligent transportation supervisory system (ITS)
- ◆ High-speed Way supervisory/Tele-Communication System
- ◆ Security protection system, TV medical treatment
- ◆ Long-distance Multi-media Schooling, Campus monitoring
- ◆ Long-distance broadcast television transmission system
- ◆ High-building Security Protection, Military Tele-Com projects

Specification

Product	5-Port 10/100M Switch with 4-Port POE and 1-Port Fiber
Part No.	FI-MC-F-PSE-SM-14-20-SC / FI-MC-F-PSE-BIDI-14-20A-SC / FI-MC-F-PSE-BIDI-14-20B-SC
	4 x 10/100Mbps RJ45 Ports AUTO Negotiation/AUTO MDI/MDIX



	1 x 155Mbps SC Ports Single-mode optical fiber (Duplex / Simplex)
Power Pin Assignment	Data provided over pairs over 1/2 and 3/6 ,Power over spare pairs 4/5(+) and 7/8 (-)
PoE Distance	100m
Transmission Method	Store-And-Forward
Network Media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)
	100BASE-TX: UTP category 5, 5e cable (maximum 100m)
	Single-mode optical fiber (Duplex SC or Simplex SC optional) 20 Km
Performance Specifications	Bandwidth: 1.6 Gbps
	Network latency: Less than 20 μ s for 64-byte frames in store-and-forward mode for 100 Mbps to
	Buffer memory: 96 KB embedded memory per unit
	Address database size: 1,000 media access control (MAC) addresses per system
	Addressing: 48-bit MAC address
	Mean Time Between Failure (MTBF): 190,000 hours (~ 21 years)
	Acoustic Noise: 0 dB
Network Protocol and Standards	IEEE 802.3i 10BASET
	IEEE 802.3u 100BASETX
	IEEE 802.3x Flow Control
	IEEE 802.1af DTE Power via MDI
	IEEE 802.3af
Status LEDs	System: Power, PoE Maximum Power
	Per Port: Link, Activity, Speed, PoE Active, PoE Fault



Power Supply	Total Power Consumption: 60 W maximum
	PoE Watt budget: 56W
	IEEE802.3af Power Consumption: 56 W maximum (Ports 1 – 4)
	48VDC, 1.25A power output; plug is localized to country of sale
Physical Specifications	Dimensions (H x W x D): 28 x 118 x 85mm
	Weight: 0.5kg/pcs (Include external power supply)
Environmental Specifications	Operating temperature: 0 to 55°C
	Storage temperature: -20 to 75°C
	Operating humidity: 90% maximum relative humidity, non-condensing
	Storage humidity: 95% maximum relative humidity, non-condensing
	Operating altitude: 10,000 ft (3,000 m) maximum
	Storage altitude: 10,000 ft (3,000 m) maximum
Electromagnetic Emissions	CE mark, commercial
	FCC Part 15 Class B
	VCCI Class B
	EN 55022 (CISPR 22), Class B
Safety	CE Mark ,commercial
	CE/LVD EN60950
Warranty	2 years for PoE Switch
	2 years for power supply
Package Contents	5-Port 10/100M Switch with 4-Port POE and 1-Port Fiber

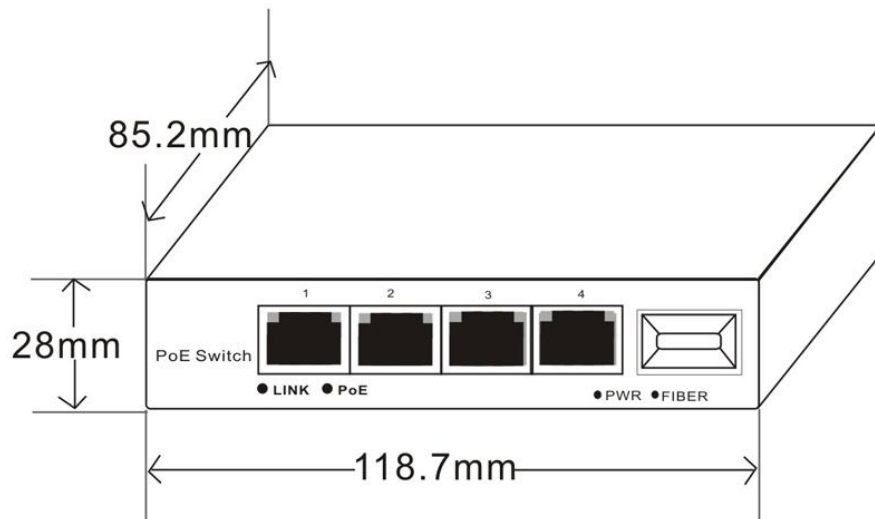


	AC Adapter
	Installation guide
	Warranty/Support Information card

Order Information

Part No.	Descriptions
FI-MC-F-PSE-SM-14-20-SC	10/100 Base-TX/FX PoE Media Converter 20Km SC (Dual Fiber, Single mode) 1-4 Port support PoE (15.4W per port)(IEEE802.3af)
FI-MC-F-PSE-BIDI-14-20A-SC	10/100 Base-TX/FX PoE Media Converter 20Km SC (Single Fiber, Single mode) 1-4 Port support PoE (15.4W per port)(IEEE802.3af) (TX=1310 nm)
FI-MC-F-PSE-BIDI-14-20B-SC	10/100 Base-TX/FX PoE Media Converter 20Km SC (Single Fiber, Single mode) 1-4 Port support PoE (15.4W per port)(IEEE802.3af) (TX=1550 nm)

Installation Size



Department/Workgroup POE Switch

Providing 4-Port PoE in-line power interfaces, the FI-MC-F-PSE-SM-14-20-SC / FI-MC-F-PSE-BIDI-14-20A-SC / FI-MC-F-PSE-BIDI-14-20B-SC can easily build a power centrally-controlled IP phone system, IP Camera system and Wireless AP group for the enterprise. For instance, up to 4 PoE IP cameras can be installed around the corner in the company for surveillance demands or up to 4 PoE Wireless AP to build a wireless roaming environment in the office. Without the power-socket limitation, the Switch makes the installation of cameras or Wireless AP more easily and efficiently.

