PoE PSE FAST MEDIA CONVERTER
MODEL: MODEL1100-PoE SERIAL

Overview:

MODEL1100-PoE is a 10/100Base-TX to 100Base-FX media converter, which allows two types of network segment to be connected easily. Complied with IEEE802.3af standard, the AC/DC powered PoE media converter is a Power Sourcing Equipment (PSE) which combines data transfer over a fiber optic link with 48V (or other voltage) power supply, providing power to IEEE802.3af powered device (PD) over CAT5 UTP cable (cable length up to 100meters / 330feets). The converter includes a single port PSE controller, which offers PD signature sensing and power monitoring features. Other features include over-current protection, LFP function. The LFP (Link FauiT Pass-through) allows the media converter to monitor both the fiber and copper RX port for loss of signal. In case of a loss of RX signal on one media port, the converter will automatically disable the TX signal to the other media port, thus passing through the link fault.

Picture:

Main features:

- 10/100Base-TX UTP to 100Base-FX fiber media converter
- IEEE802.3af PoE PSE compatible
- 9K bytes packet at cut-through mode
- Built-in AC/DC power supply
- Over-current protection
- Choice of SC, BiDi or LC connectors for multimode and single-mode
- DIP switch to set different configurations
- LFP (Link Fault Pass-through) support

Specifications:

- Operating standards: IEEE802.3 10Base-T Ethernet, IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control
- MAC addresses table: 1K
- Data buffer: Built-in 128Kbyte RAM
- Connectors: UTP Connector: RJ-45, 10/100Base-T,
- Fiber Connector: ST/SC/FC, 100Base-FX
- Cable:
  - UTP: Cat. 5 (the max distance up to 100m)
  - Dual-fiber Multi-mode: 5m (Fiber size: 62.5/125µm)/2Km (fiber size: 50/125µm)
  - Dual-fiber Single-mode: 25/40/60/80/100/120Km; Single-fiber Single-mode: 25/40/60/80Km.
- Flow Control
  - Full Duplex: Supporting standard IEEE802.3x
  - Half Duplex: back pressure

1. **Ethernet Port**
- Compatible with IEEE 802.3 series Standards
- Speed: 10/100Mbps auto-negotiation
- Duplex: Half/full auto-negotiation
- Connectors: RJ45 Jack
- MDI/MDI-X crossover automatically

Power over Ethernet Output:
- Pin Assignment and Polarity: 4/5 (V+),7/8 (V-)
- Output Power…..please refer to ordering information
- Efficiency: 75% min
- Short circuit protection: Auto recovery
- Over current protection: Auto recovery
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2. **Optical Port**
- Wavelength: 850nm/1310nm/1550nm
- Single mode/Multimode Optional
- Up to 120km transmission distance
- SC/PC, ST/PC and FC/PC optional (Or SFP Slots)

3. **Power**
- Input DC: 5 VDC
- Consumption: Standalone < 1W

4. **Power Adapter**
- Input: 85VAC~265VAC, 0.2A, 50/60Hz
- Output: 5VDC, 1A

5. **Environment**
- Temperature: 5°C ~ 40°C;
- Humidity: 30% ~ 90% (25°C);

6. **LEDs**
- PWR, FDX, LINK, ACT, FX, TX 100

7. **Appearance**
- Dimensions: 94.0 x 71.0 x 26.0mm
- Shell: Iron
- Color: Black
- Weight: 240g

Information Order:

Type	Connector	Fiber type	Wavelength (Nm)	Max. distance	TX power (dBm)	Sensitivity	Link Budget
MODEL1100-SC-2	SC Duplex	Multi-mode	850	2Km	-13~-8	-30dBm	17dBm
MODEL1100S-SC-25	SC Duplex	Single-mode	1310	20km	-14~-8	-32dBm	18dBm
MODEL1100S-SC-40	SC Duplex	Single-mode	1310	40km	-8~-3	-33dBm	25dBm
MODEL1100S-SC-60	SC Duplex	Single-mode	1550	60km	--3~0	-36dBm	33dBm
MODEL1100S-SC-80	SC Duplex	Single-mode	1550	80km	-10~-5	-35dBm	25dBm
MODEL1100S-SC-100	SC Duplex	Single-mode	1550	100km	-5~0	-36dBm	31dBm
MODEL1100S-SC-120	SC Duplex	Single-mode	1550	120km	0~+3	-36dBm	36dBm
MODEL1100SS-SC-25	SC Simplex	Single-mode	1310/1550	20km	-14~-8	-32dBm	18dBm
MODEL1100SS-SC-40	SC Simplex	Single-mode	1310/1550	40km	-8~-3	-33dBm	25dBm
MODEL1100SS-SC-60	SC Simplex	Single-mode	1490/1550	60km	-3~0	-36dBm	33dBm
MODEL1100SS-SC-80	SC Simplex	Single-mode	1490/1550	80km	-10~-5	-35dBm	25dBm