

# OPT-1100P Series **PoE (PSE) Media Converter**

100Base-Fx to 10/100/1000Base-Tx RoHS Compliant





## >>Description

As more and more PoE PD devices need higher power input and long-distance transmission, OPTONE has released a new Power over Ethernet Media Converter, OPT-1100P series. With the brand-new IEEE 802.3at High Power over Ethernet technology applied.

The OPT-1100P series is a Single-Port, End-Span IEEE 802.3at High Power over Ethernet converter designed specifically to satisfy the growing demand for higher power required network equipment such as PTZ (Pan, Tilt & Zoom) network cameras, PTZ speed dome, color touch-screen VoIP telephones, multi-channel (IEEE 802.11a / b / g / n) wireless LAN access points and other network devices that need higher power to function normally. The OPT-1100P High Power over Ethernet converter series is an ideal solution to delivering data and power to network devices directly via the RJ45 Port interface without the need for installing extra power outlets and electrical cabling.

## >>Main Features

- IEEE 802.3at, IEEE 802.3af PoE standard compliance
- Provides DC 48V power over RJ45 Ethernet cable to devices with Ethernet port
- Supports a maximum of 40 watts output power
- Support PD detection and PD classification
- Support super large video traffic
- Auto-negotiation support on RJ-45 port
- Auto-negotiation of duplex(HDX/FDX) on RJ-45 port
- Auto MDI/MDI-X support on RJ-45 port
- Supports jumbo frame size 9K bytes
- Status LED for easy monitoring of device status
- FCC Class A & CE approved



## >>Specifications

#### Interface

- 1 x Ethernet+DC port (RJ45) 10/100/1000Base-Tx
- 1 x Optical port (1x9 or SFP) 100Base-Fx

#### **Optical Port**

- Available for 1310nm and 1550nm Single mode, and 1310nm Multi mode
- Transfer Distance: up to 120km
- Connectors: SC, ST, FC and SFP optional
- Fiber core: 8.3µm, 8.7µm, 9µm and 10µm on single-mode fiber; 50, 62.5 and 100µm on multi-mode fiber

#### **Ethernet Port**

- Cable: Cat 5/5e/6 UTP cable
- Available speed: force 10Mbps, force 100Mbps , force 1000Mbps and auto-detective 10/100/1000Mbps. Full-Duplex and Half-Duplex auto-negotiation
- Connectors: RJ-45 Connector; MDI/MDI-X connection autosensing

### Standard

- IEEE802.3 (10Base-T)
- IEEE802.3u (100Base-TX/FX)
- IEEE802.3ab (1000Base-T)
- IEEE802.3z (1000Base-SX/LX/CX/T)
- IEEE802.3x (Flow control)
- IEEE802.3af (Power over Ethernet Standard)

• IEEE802.3at (Power over Ethernet enhancements Standard)

### **LED Indicators**

• Power Status, Speed Status, FX Link/Act, TX Link/Act, PoE

### **PoE Specification**

- Power Output: PoE 48V DC, max 40 watts
- PoE Power Supply type: End-Span
- Power Pin Assignment: 1/2(+), 3/6(-)
- PoE Power Budget: 40 watts

#### **Power Requirement**

• 48V DC, 1A External AC to DC adapter

#### **Physical Characteristics**

- Housing: Metal enclosure
- Dimensions: 94 x 70 x 26mm

### Weight: 0.3kg

#### **Environmental Limits**

- Operating Temperature: -10°C to 70°C
- Storage Temperature: -20°C to 70°C
- Operating Humidity: 10% to 90% RH (non-condensing)
- Storage Humidity: 5% to 90% RH (non-condensing)

#### **Agency Approvals**

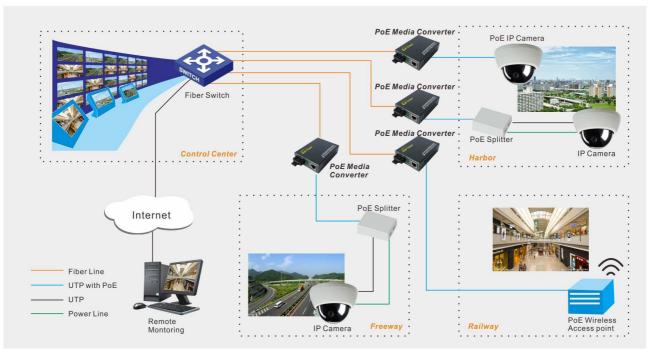
• FCC Part 15 of Class A & CE approved

#### Warranty

3 years

## >>Applications

The following illustrates typical applications for the OPT-1100P series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.





# >>Ordering Information

Double Fiber				
OPT-1100PM02	100Base-Fx to 10/100/1000Base-Tx PoE(PSE), Multi mode, 2km, SC/ST/FC			
OPT-1100PS20	100Base-Fx to 10/100/1000Base-Tx PoE(PSE), Single mode, 20km, SC/ST/FC			
OPT-1100PS40	100Base-Fx to 10/100/1000Base-Tx PoE(PSE), Single mode, 40km, SC/ST/FC			
OPT-1100PS60	100Base-Fx to 10/100/1000Base-Tx PoE(PSE), Single mode, 60km, SC/ST/FC			
OPT-1100PS80	100Base-Fx to 10/100/1000Base-Tx PoE(PSE), Single mode, 80km, SC/ST/FC			
Single Fiber				
OPT-1100PW20	100Base-Fx to 10/100/1000Base-Tx PoE(PSE), Bi-Directional, 20km, SC/ST/FC			
OPT-1100PW40	100Base-Fx to 10/100/1000Base-Tx PoE(PSE), Bi-Directional, 40km, SC/ST/FC			
OPT-1100PW60	100Base-Fx to 10/100/1000Base-Tx PoE(PSE), Bi-Directional, 60km, SC/ST/FC			
OPT-1100PW80	100Base-Fx to 10/100/1000Base-Tx PoE(PSE), Bi-Directional, 80km, SC/ST/FC			
SFP Port				
OPT-1100PA	FE SFP Port to 10/100/1000Base-Tx PoE(PSE)			

### **Optional SFP (OPT-1100PA)**

Model	Rate	Wavelength	Distance	Connector
SFP-SX-MM-0102	155Mbps	1310nm	2km	LC
SFP-LX-SM-0120	155Mbps	1310nm	20km	LC
SFP-LX-SM-0140	155Mbps	1310nm	40km	LC
SFP-ZX-SM-0180	155Mbps	1550nm	80km	LC

## >>Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTONE before they become applicable to any particular order or contract. In accordance with the OPTONE policy of continuous improvement specifications may change without notice.

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