OPT-1100P Series
Fast Ethernet Media Converter
10/100Base-Tx(PoE) to 100Base-Fx

RoHS Compliant

CE   FC

>>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 30 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) 10/100Base-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 and auto-detective 10/100Mbps. Full-Duplex and Half-Duplex auto-negotiation
- Connectors: RJ-45 Connector; MDI/MDI-X connection auto-sensing

Standard
- IEEE802.3 (10Base-T)
- IEEE802.3u (100Base-TX/FX)
- IEEE802.3x (Flow control)
- IEEE802.3af (Power over Ethernet Standard)
- IEEE802.3at (Power over Ethernet enhancements Standard)

LED Indicators
- Power Status, FX Link/Act, TX Link/Act, PoE

PoE Specification
- Power Output: PoE 48V DC, max 30 watts
- PoE Power Supply type: End-Span
- Power Pin Assignment: 1/2(+), 3/6(-)
- PoE Power Budget: 30 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)
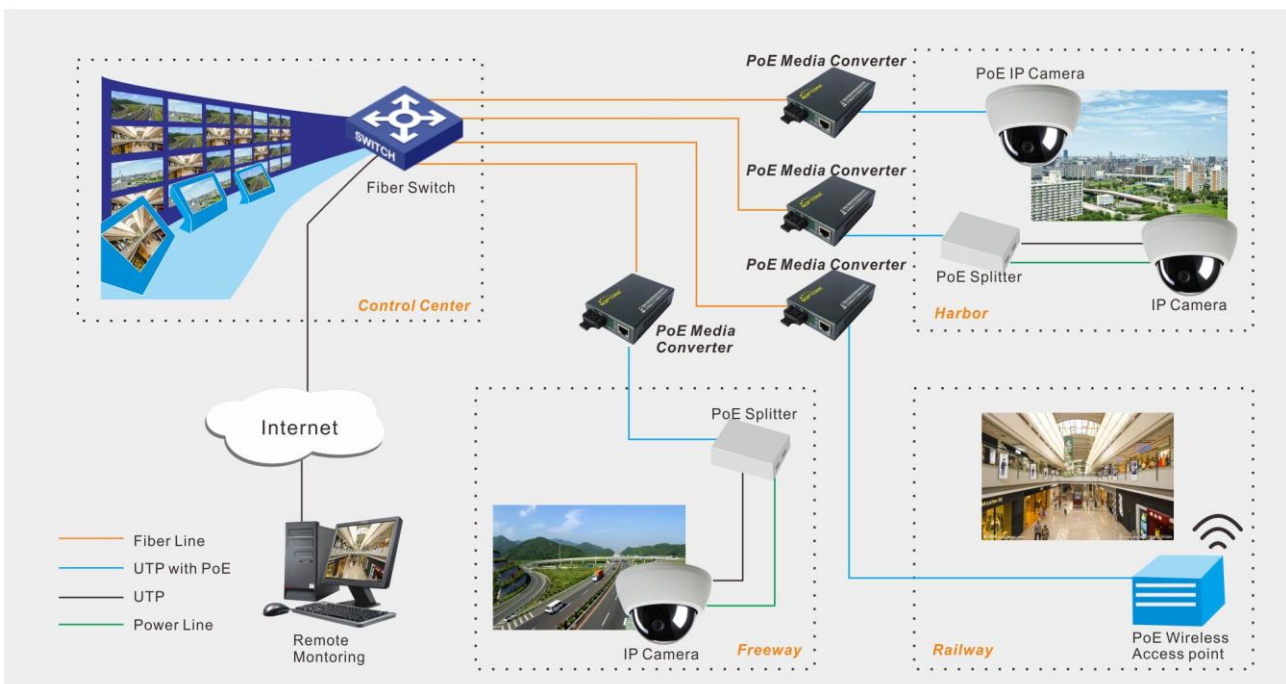
Agency Approvals
- FCC Part 15 of Class A & CE approved

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

Optional SFP (OPT-1100PA)

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

>>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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