



## OPT-1100 Series Media Converter

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



### >>Description

The OPT-1100 series is among Optone's answers to expanding existing Fast Ethernet networks. The easy implementation and expansion of 100Base-TX/FX networks can be further assured with this converter.

The converter is completely transparent when connected so the network performs exactly the way it did before - only now, it allows the co-existence of both copper and fiber mediums. Added flexibility is available with ST, SC, FC and WDM Simplex SC connectors. Extra distances are possible with the single mode version delivering up to 80km connectivity per transmitted segment.

The OPT-1100 allows the installation of fiber cabling anywhere within a Fast Ethernet network topology by directly connecting to existing devices. Its compact modular design facilitates deployment in a narrow desktop location to save space.

### >>Main Features

- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3x auto-negotiation
- Optional 19" System Chassis (OPT-R14) holds up to 14 Media Converters
- Extends distances ranging from 2km (multi-mode fiber) to 120km (single mode fiber)
- 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
- Status LED's for TX,FX LINK/ACT, POWER,100M to easily monitor network status
- External power supply
- Supports packet length up to 1600 bytes
- FCC Class A & CE approved

## >> Specifications

### Interface

- 1 x Ethernet port (RJ45) 10/100Base-Tx
- 1 x Optical port (1x9) 100Base-Fx

### Optical Port

- Available for 1310nm and 1550nm Single mode, and 1310nm Multi mode;
- Transfer Distance: up to 120km;
- Connectors: SC, ST, FC optional
- Fiber core: 9/125µm on single mode fiber, 50/125µm and 62.5/125µm on multi-mode fiber

### Ethernet Port

- Standard: IEEE802.3, IEEE802.3u, IEEE802.3x
- Available speed: force 10 Mbps, force 100 Mbps and auto-detective 10/100Mbps Full-Duplex and Half-Duplex auto-negotiation
- Connectors: RJ-45 Connector; MDI/MDI-X connection auto-sensing

### LED Indicators

- Power Status, FDX, Speed, FX Link/Act, TX Link/Act

### Power Requirement

- Input: 5V DC

### Physical Characteristics

- Housing: Metal enclosure
- Dimensions: 94 x 70 x 26mm (Excluding the connector)
- Weight: 0.28kg

### Environmental Limits

- Operating Temperature: 0°C to 50°C
- Storage Temperature: -20°C to 70°C
- Operating Humidity: 10% to 90% RH
- Storage Humidity: 5% to 90% RH

### Agency Approvals

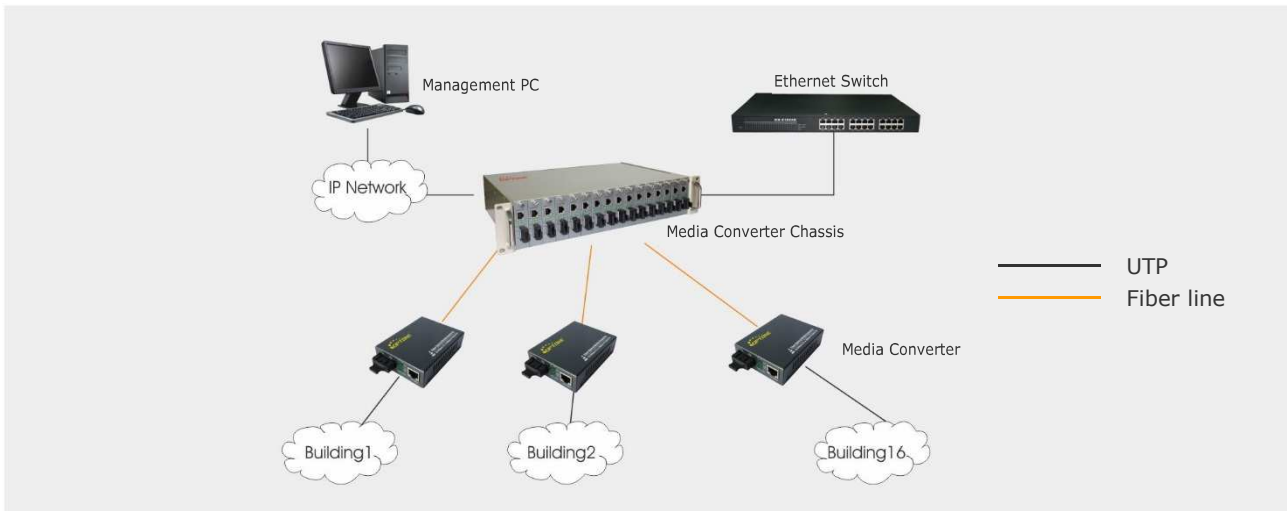
- FCC Part 15 of Class A & CE approved

### Warranty

- 3 years

## >> Applications

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





## >>Ordering Information

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### **Double Fiber Media Converter**

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OPT-1100	10/100Base-Tx to 100Base-Fx, Multi mode, 2Km, SC/ST/FC
OPT-1100S25	10/100Base-Tx to 100Base-Fx, Single mode, 25Km, SC/ST/FC
OPT-1100S40	10/100Base-Tx to 100Base-Fx, Single mode, 40Km, SC/ST/FC
OPT-1100S60	10/100Base-Tx to 100Base-Fx, Single mode, 60Km, SC
OPT-1100S80	10/100Base-Tx to 100Base-Fx, Single mode, 80Km, SC
OPT-1100S100	10/100Base-Tx to 100Base-Fx, Single mode, 100Km, SC
OPT-1100S120	10/100Base-Tx to 100Base-Fx, Single mode, 120Km, SC

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### **WDM Fiber Media Converter**

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OPT-1200S25	10/100Base-Tx to 100Base-Fx, Bi-Directional, 25Km, SC/ST/FC
OPT-1200S40	10/100Base-Tx to 100Base-Fx, Bi-Directional, 40Km, SC/ST/FC
OPT-1200S60	10/100Base-Tx to 100Base-Fx, Bi-Directional, 60Km, SC
OPT-1200S80	10/100Base-Tx to 100Base-Fx, Bi-Directional, 80Km, SC

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## >>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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[sales@optone.net](mailto:sales@optone.net)  
<http://www.optone.net>

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