

OPT-105 Series Fast Ethernet Switch

4*10/100Base-Tx to 100Base-Fx
RoHS Compliant



>>Description

The OPT-105 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 switch 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 SFP connectors. Extra distances are possible with the single mode version delivering up to 80km connectivity per transmitted segment.

The OPT-105 series 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 IEEE802.3, IEEE802.3u standard
- Provides 4-port 10/100M RJ45 and 1-port fiber ports
- Supports auto duplex(HDX/FDX) auto MDI/MDIX function
- Auto MDI/MDI-X support on RJ-45 port
- Supports jumbo frame size 2K bytes
- Status LED for easy monitoring of device status
- Fanless design, Natural cooling

>> Specifications

Interface

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

Optical Port

- Available for 1310/1490/1550nm Single mode, 1310nm Multi mode
- Transfer Distance: up to 120km
- Connectors: SC, FC, ST and SFP optional
- Fiber core: 9/125µm on single-mode fiber; 50/125µm and 62.5/125µm 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)

LED Indicators

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

Power Requirement

- 12V DC, External AC to DC adapter

Physical Characteristics

- Housing: Metal enclosure
- Dimensions: 144 x 95 x 32mm
- Weight: 0.31kg

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

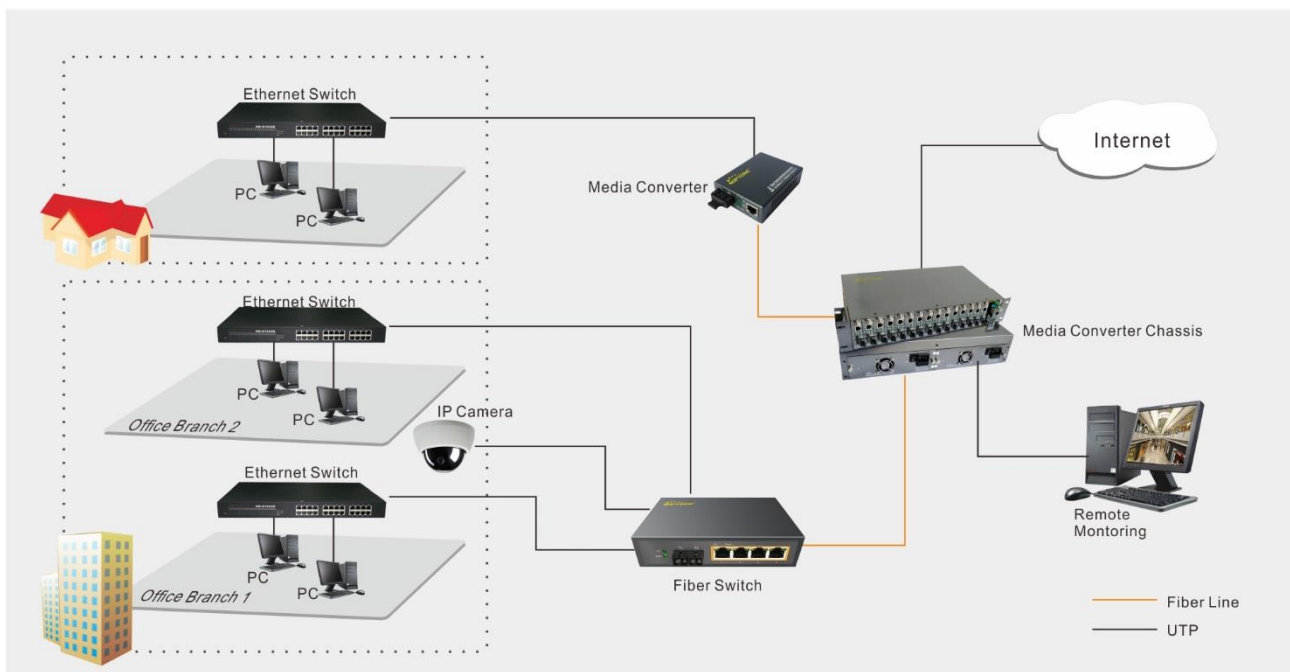
- FCC Part 15 of Class A & CE approved

Warranty

- 3 years

>> Applications

The following illustrates typical applications for the OPT-105 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-105M02	4*10/100Base-Tx to 100Base-Fx, Multi mode, 2Km, SC/ST/FC optional
OPT-105S25	4*10/100Base-Tx to 100Base-Fx, Single mode, 25Km, SC/ST/FC optional
OPT-105S40	4*10/100Base-Tx to 100Base-Fx, Single mode, 40Km, SC/ST/FC optional
OPT-105S60	4*10/100Base-Tx to 100Base-Fx, Single mode, 60Km, SC/ST/FC optional
OPT-105S80	4*10/100Base-Tx to 100Base-Fx, Single mode, 80Km, SC/ST/FC optional

Single Fiber

OPT-105W25	4*10/100Base-Tx to 100Base-Fx, Bi-Directional, 25Km, SC/ST/FC optional
OPT-105W40	4*10/100Base-Tx to 100Base-Fx, Bi-Directional, 40Km, SC/ST/FC optional
OPT-105W60	4*10/100Base-Tx to 100Base-Fx, Bi-Directional, 60Km, SC/ST/FC optional
OPT-105W80	4*10/100Base-Tx to 100Base-Fx, Bi-Directional, 80Km, SC/ST/FC optional

SFP Port

OPT-105	4*10/100Base-Tx to FE SFP port
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Optional SFP (Only OPT-105)

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