# Media Converters & SFPs

## Stand-Alone, External Power

## 10/100/1000 Media Converter

DMSI
Owning the Core®

**www.dmsimfg.com**


DMSI's 10/100/1000 stand-alone gigabit ethernet media converter is an efficient and adaptable solution in the field of LAN campus network. It mediates between a 10/100/1000Base-TX segment, and a 1000Base-FX segment. Gigabit converters can extend the conventional 10M or 100/1000M fast ethernet out to 20km-120km via the fast ethernet fiber-optical line. It is primarily designed for large, higher speed/bandwidth demanding work groups that require expansion of the ethernet network.

### FEATURES

- Provide one fiber connector and one UTP connector
- Fully complies with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.2ab 1000Base-TX, IEEE802.3z 1000Base-FX standard
- Auto-detection of half/full duplex transfer mode for TX port
- Auto-negotiation of 10/100/1000Mbpa rate and Auto-MDI/MDIX for TX port
- Provide switch configuration of half/full duplex transfer mode for FX port
- Extend fiber distance up to 2km for multi-mode fiber and 20-120km for single-mode fiber Compacts size for easy installation and working with Media Chassis
- Choice of fiber-connector from SC, LC and WDM, multi-mode / single-mode fiber for 1000Base SFP
- interface
- Easy-to-view LED indicators provides status to easily monitor network activity Internal power
- supply
- 1000Base-SX: 50/125ìm or 62.5/125ìm multi-mode fiber cable, up to 220/550m
- 1000Base-T: 2-pair Cat. 5/5e/6 UTP cable, up to 100 meters
- Back pressure flow control for full duplex IEEE802.3 X and half duplex.

## Standard Media Converter, ORDERING INFORMATION

**(Y)(A)(BB)(CC)(D)**

* Option for Power Over Ethernet, add "P" or for default power supply, or add "D" in front of part number.

### Y - Select Transmission Speed

| | |
|---|---|
| C | 10/100 |
| M | 10/100/1000 |

### (A) Select Fiber Type

| | |
|---|---|
| F | Multimode |
| Y | Single-mode |

### (BB) Select Connector Type

| | |
|---|---|
| 31 | SFP (LC) |
| 61 | SC |
| 67 | ST |
| 70 | SFP (empty slot) |

### (CC) Select Operating Wavelength

| | |
|---|---|
| 85 | 850nm (Multimode) |
| 13 | 1300nm (Multimode) |
| 10 | 1310nm (Single-mode/ Multimode) |
| 15 | 1550nm (Single-mode) |

### (D) Select Distance

| | |
|---|---|
| 5 | 550M Multimode |
| 2 | 2km Multimode |
| 1 | 10km Single-mode |
| T | 25km Single-mode |
| 4 | 40km Single-mode |
| F | 50km Single-mode |
| 8 | 80km Single-mode |

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## Technical Specifications

| | | | |
|---|---|---|---|
| **Standard Protocol /** Compliances | IEEE 802.1q standard | \| | IEEE 802.1p QoS IEEE802.1d Spanning Tree |
| | IEEE802.3 1000 Base-T standard | \| | IEEE802.3ab standard |
| | IEEE802.3z standard | \| | IEEE802.3u 10/100/1000Base-SX/TX standard |
| **Band Width** | RJ 45 Port: 10/100/1000Mbps | \| | Optical Port: 125Mbps |
| **Operation Mode** | Full/Half duplex mode | | |
| **Connectors** | UTP:RJ-45 | \| | Fiber: SC/ST/FC/LC |
| **LED Indicators** | POWER, FPL,10/100, FRX, TRX, FDX | | |
| **Power Supply** | External, 5V DC 2A | | |
| | Internal, AC110-250V/50Hz | \| | DC -32~-72V |
| | Power Consumption, ≤5W | | |
| **Environmental Parameters** | Work Temperature, 0°C~50°C (32°F ~ 122°F) | | |
| | Storage Temperature, -40°C~70°C (-40°F ~ 158°F) | | |
| | Humidity, 5%~90% non-condensing | | |
| **TP Cable** | Cat5 UTP cable (the maxdistance up to 100m) | | |
| **Fiber Cable** | Single-mode, 8.3/125, 8.7/125, 9/125, 10/125μm(the max distance up to 20 -120km) | | |
| | Multimode, 50/125, 62.5/125μm(the max distance up to 2km or 5km) | | |
| **MTBF (Hours)** | >50000 | | |
| **Dimensions (mm)** | External power supply, 94mm*70mm*25mm (3.7*2.8*0.98 inch) | | |
| | Internal power supply, 140mm*110mm*30mm (5.5*4.3*1.2 inch) | | |
| | Socket Card, 157mm*128mm*31mm (6.2*5.1*1.2 inch) | | |
| **Gross Weight** | External power supply, 0.4kg | | |
| | Internal power supply, 0.8kg | | |
| | Socket Card, 1.0kg | | |
| **Emission / Safety** | FCC Part 15, Class A, RoHS and CE Mark | | |
| **Warranty** | Lifetime | | |
| **Mean Time Between Failure** | 114,000 hours | | |
| **TAA Compliant** | Yes | | |

## DIP Switch Communication Settings

| | | |
|---|---|---|
| **Switch 1** | ON | Enable Link Fault Pass-Through |
| | OFF | Disable Link Fault Pass-Through |
| **Switch 2** | ON | Cut-Through(9K) |
| | OFF | Store and Forward |
| **Switch 3** | ON | Flow control enable |
| | OFF | Flow control disable |
| **Switch 4** | ON | FX Speed 100Mbps |
| | OFF | FX Speed 1000Mbps |