

## Gigabit Media Converter

### Copper Gigabit to Fiber Gigabit

- 1000BASE-T to 1000BASE-LX Signal Conversion
- Up to 15 km Single-Mode Fiber Cable Distance
- WDM Bi-Directional Wavelength
- Single Fiber Strand for Transmission/Reception
- Minimal Reflection, No Budget Loss

#### FEATURES

- 1000BASE-T to 1000BASE-LX Signal Conversion
- Up to 15 km Single-Mode Fiber Cable Distance
- Single Fiber Strand for Transmission/Reception
- Full Duplex operation
- 802.3x Flow Control Support
- Manageable Through Intelligent Chassis System
- LLR (Enable/Disable), Fiber (Auto-Negotiation/Manual) Functions
- Installable as Stand-Alone Device or in Rack-Mount Chassis

#### Deployment in Pair or Single Unit

##### DMC-1910 Package Includes:

- DMC-1910R - Wavelength TX: 1310 micron, RX: 1550micron
- DMC-1910T - Wavelength TX: 1550 micron, RX: 1310micron

One unit is to be deployed at a local site, the other unit at the remote site. A single unit (DMC-1910R or DMC-1910T) can be deployed if either side of the connection is already equipped with a media converter of similar wavelengths.

The D-Link DMC-1910 Fiber Media Converter converts 1000BASE-T copper Gigabit signals to 1000BASE-LX fiber Gigabit signals. This allows you to connect longer distance fiber cables between two devices that are designed only for shorter distance Cat. 5 twisted-pair cable.

The DMC-1910 media converter combines transmitting and receiving signals onto one fiber strand using two wavelengths. This design avoids the budget losses incurred by the single-wavelength single-fiber technology, and minimizes any possibility of reflections in the system. The DMC-1910 consists of two units. One unit uses one wavelength to transmit and a second wavelength to receive, while the other flips that relationship. Two different types of transmitting wavelength are supported: one WDM bi-directional wavelength for both transmission and reception.

Both units of the DMC-1910 media converter are encased in a solid metal housing with LED status indicators. The DMC-1910 can be used as stand-alone converter, or installed in a DMC-1000 chassis. In case you install it in the chassis, you will remove the metal cases of the two units and slide in their PC boards into the chassis slots. The chassis's power supply will be used instead of the media converters' own AC to DC power adapter. The media converter is hot swappable when used with the chassis.



## Product Specifications

### Standards

- 802.3ab 1000BASE-T
- 802.3z 1000BASE-LX

### Conversion Scheme

Pair of one-channel single-mode fiber media conversion between 1000BASE-T and 1000BASE-LX

### Wavelength

- 2 different types of transmitting wavelength
- 1 wavelength with WDM bi-directional for both transmit and receive
- DMC-1910R: TX: 1310 micron; RX: 1550 micron
- DMC-1910T: TX: 1550 micron; RX: 1310 micron

### Connectors

- 1000BASE-T: RJ-45 connector
- 1000BASE-LX: LC connector

### Cables

- 1000BASE-T: Cat. 5 twisted-pair cable (up to 100 m)
- 1000BASE-LX: single-mode fiber cable (up to 15 km)

### Full Duplex

Full-duplex mode support on 1000BASE-T Gigabit port

### Auto MDI/MDIX

Auto MDI/MDIX on 1000BASE-T port

### Transmission Method

Store-and-forward mechanism

### Flow Control

Back-pressure & IEEE 802.3x compliant flow control

### Forwarding Rate

Full wire-speed forwarding rate

### Installation Methods

- Stand-alone device
- Installable module in DMC-1000 chassis

### Hot Swap

Hot-swappable when installed in DMC-1000 chassis

### Management

Through DMC-1000 chassis with DMC-1002 management module installed

### Management Functions

- LLR (Enable/Disable)
- Fiber (Auto-Negotiation/Manual)

## Physical & Environmental

### Power Supply

Through AC power adapters (when used as stand-alone device)

### Power Consumption

5.5 Watts(max.)(for each DMC-1910R and DMC-1910T unit)

### Operating Temperature

0° to 40°C (32 to 104°F)

### Storage Temperature

-10° to 70°C (-26° to 158°F)

### Operating Humidity

10 to 90%, non-condensing

### Dimensions

120 (L) × 88 (W) × 25 (H) mm (for both DMC-1910R and DMC-1910T units)

### EMI

- FCC Class B
- VCCI Class B
- CE Class B
- C-Tick

### DMC-1910 Box Includes

- DMC-1910R unit
- DMC-1910T unit
- 2 AC power adapter
- User's Manual
- Quick Installation Guide

### DMC-1910T Box Includes

- DMC-1910T unit
- 1 AC power adapter
- User's Manual
- Quick Installation Guide

### DMC-1910R Box Includes

- DMC-1910R unit
- 1 AC power adapter
- User's Manual
- Quick Installation Guide



## D-Link Worldwide Offices

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