D-Link

Media Converter with Individual Metal Case Housing.

DMC-1000 Chassis

Chassis-based Media Converters

System Overview

The Chassis-based Media Converters include a number of independent media converters and a chassis capable of housing up to 16 media converters. You can start with single media converters, each equipped with its own housing and AC power adapter. When you requirements grow big, you can mount a chassis in your equipment rack and install your media converters in the chassis. The housing of each media converter can be easily removed, and the media converter PC board can be slid into the chassis.

Chassis & Power Supply

The chassis lets you install multiple media converters in an equipment rack together with the network devices for which they provide media conversion. This provides for space saving, and the cabling will look neat. The chassis comes with its own universal AC to DC power supply. For maximum power availability, an optional redundant power supply is available for installation in chassis.

Media Converters Stand-alone or Installed in Chassis

The media converters convert signals capable of transmission on one type of cable to signals capable of transmission on another type of cable. This allows you to

connect longer distance fiber cables between devices that are designed only for shorter distance cables, such as the Cat. 5 twisted-pair cable.

All media converters in this system come with their own solid metal case housing, LED status indicators and AC to DC power adapters. They can be used as stand-alone converters, or installed in the chassis. In case you install them in the chassis, you will remove their metal cases 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 adapters. All media converters are hot-swappable when used with the chassis.

Media Conversion Solutions

The following media conversion solutions are available:

- *Fast Ethernet twisted-pair to Fast Ethernet 100BASE-FX Fiber (single-mode and multi-mode)*
- *Fast Ethernet 100BASE-FX fiber multi-mode to single-mode*
- *1000BASE-T Gigabit twisted pair to 1000BASE-SX and 1000BASE-LX Gigabit fiber*

For fiber cables, MT-RJ and SC types of connectors are supported.

Chassis Features

- 16 bays to house up to 16 media converters
- Front panel LEDs for bay and fan power status
- Standard 19-inch rack-mountable with, 2U height
- Non-stop operation & minimal downtime
- Allows hot-swapping of media converters
- Hot swappable redundant power supplies

- Cooling fans on back side (together with power supplies)
- Power redundancy & power isolation
- 1 universal internal AC to DC power supply provided
- Optional second AC to DC power supply for load-sharing purpose
- Media converter power isolation for electrical isolation from each bay

DMC-1000 Chassis

LED indicators
- Power LED   - Fan LED

Dimensions
415 x 390 x 89 mm

AC input
- 100-240 VAC, 50/60Hz
- Internal universal power supply

Operation Temperature
0˚- 40˚C

Storage Temperature
-10˚- 50˚C

Operation Humidity
10% - 90%

Storage Humidity
5% - 90%

Emission (EMI)
- FCC class A
- VCCI class A
- CE Class A

Ordering Information

Chassis-based Media Converter
DMC-1000   Media Converter Chassis

Optional Media Converter Modules
DMC-300M   Fast Ethernet Twisted-pair to Fast Ethernet Multi-mode Fiber (2km, MT-RJ) Media Converter Module
DMC-300SC   Fast Ethernet Twisted-pair to Fast Ethernet Multi-mode Fiber (2km, SC) Media Converter Module
DMC-515SC   Fast Ethernet Twisted-pair to Fast Ethernet Single-mode Fiber (15km, SC) Media Converter Module
DMC-530SC   Fast Ethernet Twisted-pair to Fast Ethernet Single-mode Fiber (30km, SC) Media Converter Module
DMC-560SC   Fast Ethernet Twisted-pair to Fast Ethernet Single-mode Fiber (60km, SC) Media Converter Module
DMC-615SC   Fast Ethernet Multi-mode Fiber (2km SC) to Fast Ethernet Single-mode Fiber (15km, SC) Media Converter Module
DMC-700SC   1000BASE-T Gigabit Twisted-pair to 1000BASE-SX Gigabit Fiber Multi-mode Fiber (550m, SC) Media Converter Module
DMC-810SC   1000BASE-T Gigabit Twisted-pair to 1000BASE-LX Gigabit Fiber Single-mode Fiber (10km, SC) Media Converter Module

Optional Redundant Power Supply
DMC-1001   Redundant Power Supply

DMC-300M, DMC-300SC Media Converters

These converters convert 10/100Mbps 10BASE-T/ 100BASE-TX Fast Ethernet twisted-pair signals to 100BASE-FX Fast Ethernet multi-mode fiber signals. Maximum fiber cable distance is 2km. 1 RJ-45 twisted-pair port and 1 fiber port are provided.

- DMC-300M: the fiber port on this media converter is the MT-RJ connector.
- DMC-300SC: the fiber port on this media converter is the SC connector.

Media Converter Features
- One-channel media conversion between 10BASE-T/ 100BASE-TX and 100BASE-FX
- Fiber MT-RJ or SC connector
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI-II and MDI-X
- One slide switch for configuring fixed half/full duplex modes
- Store-and-forward mechanism
- Back-pressure & IEEE 802.3x Flow Control compliant
- Full wire-speed forwarding rate
- Front panel status LEDs
- Can be used as a stand-alone device or with chassis
- Hot-swappable when used with chassis

Technical Specifications
LED Indicators
- Power
- 100Mbps Speed (for twisted-pair port)
- Full Duplex/Collision (for twisted-pair and fiber ports)
- LINK/ACT (for twisted-pair port)

Housing Dimensions
120 x 88 x 25 mm

Power Input
- 7.5V 1.5A
- Through external AC power adapter

Operation Temperature
0˚- 40˚C

Storage Temperature
-25˚- 70˚C

Humidity
10 ~ 90% non-condensing

Emission (EMI) - FCC Class B
- VCCI Class B
- CE Class B
- C-Tick

DMC-515SC, DMC-530SC, DMC-560SC Media Converters

These converters convert 10/100Mbps 10BASE-T/100BASE-TX Fast Ethernet twisted-pair signals to 100BASE-FX Fast Ethernet single-mode fiber signals. Maximum fiber cable distance is 15 - 60 km. 1 RJ-45 twisted-pair port and 1 fiber port (SC connector) are provided.

- DMC-515SC: this media converter supports maximum 15km fiber cable distance.
- DMC-530SC: this media converter supports maximum 30km fiber cable distance.
- DMC-560SC: this media converter supports maximum 60km fiber cable distance.

Media Converter Features
- One-channel media conversion between 10BASE-T/100BASE-TX and 100BASE-FX
- Fiber SC connector
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI-II and MDI-X
- One slide switch for configuring fixed half/full duplex modes
- Store-and-forward mechanism
- Back-pressure & IEEE 802.3x Flow Control compliant
- Full wire-speed forwarding rate
- Front panel status LEDs
- Can be used as a stand-alone device or with chassis
- Hot-swappable when used with chassis

Technical Specifications
LED Indicators
- Power
- 100Mbps Speed (for twisted-pair port)
- Full Duplex/Collision (for twisted-pair and fiber ports)
- LINK/ACT (for twisted-pair port)

Dimensions
120 x 88 x 25 mm

Power Input
- 7.5V 1.5A
- Through external AC power adapter

Operation Temperature
0˚- 40˚C

Storage Temperature
-25˚- 70˚C

Humidity
10 ~ 90% non-condensing

Emission (EMI)
- FCC Class B
- VCCI Class B
- CE Class B
- C-Tick

DMC-615SC Media Converter

This converter converts 100BASE-FX Fast Ethernet multi-mode fiber signals to 100BASE-FX Fast Ethernet single-mode fiber signals. Maximum fiber cable distance is 15km. 2 fiber ports (SC connectors) are provided.

Media Converter Features
- One-channel media conversion between 100BASE-FX multi-mode to 100BASE-FX single-mode fiber
- 2 fiber SC connectors
- Store-and-forward mechanism
- Full wire-speed forwarding rate
- Front panel status LEDs
- Can be used as a stand-alone device or with chassis
- Hot-swappable when used with chassis

Technical Specifications
LED Indicators
- Power
- LINK-1
- LINK-2

Dimensions
120 x 88 x 25 mm

Power Input
- 7.5V 1.5A
- Through external AC power adapter

Operation Temperature
0˚- 40˚C

Storage Temperature
-25˚- 70˚C

Humidity
10 ~ 90% non-condensing

Emission (EMI)
- FCC Class B
- VCCI Class B
- CE Class B
- C-Tick

DMC-700SC, DMC-810SC Media Converters

DMC-700SC Media Converter: This converter converts 1000BASE-T Gigabit twisted-pair signals to 1000BASE-SX Gigabit multi-mode fiber signals. Maximum fiber cable distance is 550m. 1 RJ-45 twisted-pair port and 1 fiber port (SC type connector) are provided.

DMC-810SC Media Converter: This converter converts 1000BASE-T Gigabit twisted-pair signals to 1000BASE-LX Gigabit single-mode fiber signals. Maximum fiber cable distance is 10km. 1 RJ-45 port and 1 fiber port (SC type connector) are provided.

Media Converter Features

- One-channel media conversion between 1000BASE-T and 1000BASE-SX/LX
- Auto negotiation of duplex mode on twisted-pair port
- Auto MDI-II/MDI-X for twisted-pair port
- Full wire-speed forwarding rate
- Front panel status LEDs
- Can be used as a stand-alone device or with chassis -
- Hot-swappable when used with chassis

Technical Specifications

LED Indicators
- Power (PWR) - LINK/ACT
- Housing Dimensions
- 120 x 88 x 25 mm

Power Input
- 7.5V 1.5A
- Through external AC power adapter

Operating Temperature
0˚- 40˚C

Storage Temperature
-25˚- 70˚C

Humidity
10 ~ 90% non-condensing

Emission (EMI)
- FCC Class B
- VCCI Class B
- CE Class B
- C-Tick

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