

Highlights

Compact Form Factor

D-Link's Standalone Media Converter series offers signal conversion in a compact device

Utilize Your Fiber

Send a fiber signal over a variety of distances, with a selection of models suitable for 2 km to 60 km

Reliable Technology

The Standalone Media Converters adhere to industry standards and are compliant with 802.3u & 802.3x so you know they can go the distance



DMC-G01LC & DMC-F Series Standalone Media Converters

Features

Small Size

- Tiny footprint allows you to keep space free for other networking devices
- Deploy it wherever you need without occupying an entire rack slot

High Performance

- Cut-Through traffic forwarding
- Low latency

Variety

- The DMC-G01LC allows for Gigabit speeds and a wide array of SFP modules
- Fiber distance options vary from 2 km to 60 km for maximum flexibility

Standalone Convenience

- Control costs by buying only the equipment your organization needs
- Expand capacity at your own pace

Powerful Ports

- Auto MDI/MDIX
- Auto-Negotiation
- Half-Duplex and Full-Duplex at 10/100 Mbps, Full-Duplex at 1000Mbps¹

D-Link's Standalone Media Converters turn an Ethernet connection into fiber, allowing for ultra-fast long distance connections. Installation of a Standalone Media Converter is simple, and allows you to tap into fiber speeds with ease. Instead of requiring an investment in an entire chassis, the standalone series is able to provide the same high-quality conversion on a unit-by-unit basis. The standalone nature of these means that you can use save space and cut costs while still extending your network over long distances up to 60 km on a fiber-optic line. In addition to all models supporting 10/100 Mbps Half/Full-duplex, the DMC-G01LC also allows for 1000 Mbps Full-Duplexing, letting you truly maximize your network's potential.

Extend Your Network

Fiber-optic speeds are critical to success, but twisted-pair cabling can only go so far. Using D-Link's converters you can change a twisted-pair Fast Ethernet connection into a single-mode or multi-mode fiber connection that can go much farther. Converters for distances of anywhere from 2 km to 60 km allow you to optimize your selection.

No Wasted Space

Its compact size fits anywhere and doesn't require an entire rack. Measuring just 70 mm wide by 95 mm long by 25 mm high, the total volume of one unit is just 0.166 liters. This allows for convenient installation wherever it is needed, especially in limited space environments such as telecommunication cabinets or a distribution box.

Plug & Play

The media converters offered by D-Link include several industry-standard technologies that make them easy to operate, like 802.3u/x/ab¹. Auto-MDI/MDIX and Auto-Negotiation make sure your cable connection functions at the highest possible speed while remaining compatible. There's no management software to configure – simply connect the converter.

Technical Specifications

General

| | |
|----------------------|--|
| Max. Forwarding Rate | <ul style="list-style-type: none"> • 10 M: 14, 880 pps • 100 M: 148,800 pps • 1000¹ M: 1,488,000 pps |
| Forwarding mode | <ul style="list-style-type: none"> • Cut-Through |
| Packet Buffer Memory | <ul style="list-style-type: none"> • 128 Kbits (256 Kbits¹) |
| Switching Capacity | <ul style="list-style-type: none"> • 2 Gbps |

Physical/Environmental

| | | | | | | | |
|--------------------------------------|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Model | • DMC-F02SC | • DMC-F15SC | • DMC-F20SC-BXD | • DMC-F20SC-BXU | • DMC-F30SC | • DMC-F60SC | • DMC-G01LC |
| External Power Adapter | • Switching 5V/1A Level V Power Adapter, ErP compliant | | | | | | |
| Power Consumption (Max.) at 240 V | • DC 1.46 W • AC 2.17 W | • DC 1.45 W • AC 2.21 W | • DC 1.42 W • AC 2.17 W | • DC 1.44 W • AC 2.18 W | • DC 1.42 W • AC 2.21 W | • DC 1.53 W • AC 2.32 W | • DC 2.34 W • AC 3.46 W |
| Power Consumption (Standby) at 240 V | • DC 0.96 W • AC 1.55 W | • DC 1.00 W • AC 1.61 W | • DC 0.96 W • AC 1.55 W | • DC 0.97 W • AC 1.57 W | • DC 0.94 W • AC 1.58 W | • DC 1.06 W • AC 1.67 W | • DC 1.49 W • AC 2.06 W |
| Heat Dissipation (Max.) | • 7.40 BTU/h | • 7.54 BTU/h | • 7.40 BTU/h | • 7.44 BTU/h | • 7.54 BTU/h | • 7.92 BTU/h | • 11.81 BTU/h |
| MTBF (hours) | • 482,583 | | | | | | • 506,711 |
| Operation Temperature | • 0 to 50 °C (32 to 130 °F) | | | | | | |
| Storage Temperature | • -10 to 70 °C (14 to 158 °F) | | | | | | |
| Operating Humidity | • 10 to 90% | | | | | | |
| Storage Humidity | • 5 to 90% | | | | | | |

Emission (EMI) & Safety Certifications

| | |
|--------|--|
| EMI | • EMI: CE class A, FCC class A, VCCI class A, BSMI class A |
| Safety | • LVD, UL/cUL |

Features

| | |
|-----|--|
| LAN | <ul style="list-style-type: none"> • 1 x 10/100/(1000¹) Mbps port • IEEE 802.3u • IEEE 802.3x • IEEE 802.3ab¹ • Auto-Negotiation for each port • Full-Duplex operation at 1000 Mbps¹ • Half/Full-Duplex operation at 10/100 Mbps. • Back pressure at Half-Duplex operation • Auto MDI/MDIX • Wire speed reception and transmission • Supports Jumbo frames up to 9216 bytes at 1000 Mbps¹ |
|-----|--|

Optional Transceivers (for DMC-G01LC only)

| | |
|------------|--|
| DEM-210 | • 100BASE-FX, Single-mode, 15 km |
| DEM-211 | • 100BASE-FX, Multi-mode, 2 km |
| DEM-220R | • 100BASE-BX WDM transceiver, Single-mode, 20 km |
| DEM-220T | • 100BASE-BX WDM transceiver, Single-mode, 20 km |
| DEM-310GT | • 1000BASE-LX, Single-mode, 10 km |
| DEM-311GT | • 1000BASE-SX, Multi-mode, 550 m |
| DEM-312GT2 | • 1000BASE-SX, Multi-mode, 2 km |

DMC-G01LC & DMC-F Series Standalone Media Converter

| DEM-314GT | • 1000BASE-LHX, Single-mode, 50 km |
|--------------------|--|
| DEM-315GT | • 1000BASE-ZX, Single-mode, 80 km |
| DEM-330T/R | • Gigabit WDM transceiver, Single-mode 10 km |
| DEM-331T/R | • Gigabit WDM transceiver, Single-mode 40 km |
| DGS-712 | • 1000BASE-T Copper SFP Transceiver |
| Order Information | |
| <i>Part Number</i> | <i>Description</i> |
| DMC-G01LC | • 10/100/1000 Mbps to SFP Media Converter |
| DMC-F02SC | • 10/100BASE-TX to 100BASE-FX SC Multi-mode Media Converter (2 km) |
| DMC-F15SC | • 10/100BASE-TX to 100BASE-FX SC Single-mode Media Converter (15 km) |
| DMC-F20SC-BXD | • 10/100BASE-TX to 100BASE-FX SC Single-mode Media Converter (TX 1550 nm, RX 1310 nm, 20 km) |
| DMC-F20SC-BXU | • 10/100BASE-TX to 100BASE-FX SC Single-mode Media Converter (TX 1310 nm, RX 1550 nm, 20 km) |
| DMC-F30SC | • 10/100BASE-TX to 100BASE-FX SC Single-mode Media Converter (30 km) |
| DMC-F60SC | • 10/100BASE-TX to 100BASE-FX SC Single-mode Media Converter (60 km) |

¹ DMC-G01LC only
Updated 2012/11/15