

## Product Highlights

### Rugged, Hardened Design

Designed to operate in wide temperature ranges, withstand vibration and shock, which allows the media converter to be deployed in enclosures or cabinets in outdoor locations.

### Easy Installation

Simply plug & play with DIN rail mounting ability.

### Redundant Power Input

Redundant power input ensures network uptime should a power supply fail.



## DIS-M100G-SW

# Industrial 10/100/1000Base-T to SFP Media Converter

## Features

### Flexible Availability

- SFP port for long distance connections
- Plug and Play installation

### Robust and High-Redundancy Design

- Fanless, passive cooling design
- Wide operating temperature (-40 ~ 70 °C)
- High EMC endurance
- Durable IP30-rated housing
- Dual power input for redundant power supplies

### Environmental Test

- Shock - IEC 60068-2-27
- Freefall - IEC 60068-2-32
- Vibration - IEC 60068-2-6
- CE/FCC
- LVD (EN60950-1)

The Industrial 10/100/1000Base-T to SFP Media Converter turns an Ethernet connection into fibre, extending allowing for ultra-fast long-distance connections. The DIS-M100G-SW media converter is housed in a highly resistant IP30-rated metal casing to protect the media converter from harsh environmental conditions. Meanwhile, the fanless design extends the life of the DIS-M100G-SW while also being able to operate in a wide temperature range from -40°C up to 70 °C. For increased flexibility, the DIS-M100G-SW can also be mounted on a DIN rail or conveniently mounted on a solid surface wall. In addition, the DIS-M100G-SW supports dual power input which allows for a redundant power supply configuration to make sure the media converter continues to operate in the event of a primary power supply failure.

## Extend Your Network

Fibre 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 Ethernet connection into a single-mode or multi-mode fiber connection that can go much further. Converters for distances of anywhere from 550 m to 80 km allow you to optimise your selection.

## Industrial 10/100/1000Base-T to SFP Media Converter

## Technical Specifications

## General

Number of Ports	<ul style="list-style-type: none"> <li>• 1 x 100/1000BASE-T port</li> <li>• 1 x SFP port</li> </ul>	
Port Functions	<ul style="list-style-type: none"> <li>• IEEE 802.3u for 100BASE-TX and 100BASE-FX</li> <li>• IEEE 802.3ab for 1000BASE-T</li> <li>• IEEE 802.3z for 1000BASE-X</li> <li>• IEEE 802.3u</li> <li>• IEEE 802.3x</li> <li>• IEEE 802.3ab</li> </ul>	<ul style="list-style-type: none"> <li>• Auto-Negotiation for each port</li> <li>• Full-Duplex operation at 1000 Mbps</li> <li>• Half/Full-Duplex operation at 10/100 Mbps</li> <li>• Back pressure at Half-Duplex operation</li> <li>• Auto MDI/MDIX</li> <li>• Wire speed reception and transmission</li> </ul>
Media Interface Exchange	<ul style="list-style-type: none"> <li>• Auto-MDI/MDIX adjustment for all twisted pair ports</li> </ul>	

## Performance

Switching Capacity	<ul style="list-style-type: none"> <li>• 4 Gbps</li> </ul>
Max. Forwarding Rate	<ul style="list-style-type: none"> <li>• 1000 M: 2.976 Mpps</li> </ul>
Forwarding Mode	<ul style="list-style-type: none"> <li>• Store-and-Forward</li> </ul>

## Physical

Power Input	<ul style="list-style-type: none"> <li>• 12 to 48 VDC terminal block dual input</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>• 3.6 W</li> </ul>
Heat Dissipation	<ul style="list-style-type: none"> <li>• 12.28 BTU/h</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 190 g (0.42 lb)</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• 26.1 x 70 x 95 mm (1.03 x 2.76 x 3.74 in)</li> </ul>
MTBF	<ul style="list-style-type: none"> <li>• &gt;25 years</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• -40 to 70 °C (-40 to 158 °F)</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>• -40 to 85 °C (-40 to 185 °F)</li> </ul>
Operating Humidity	<ul style="list-style-type: none"> <li>• 5% to 95% RH, non-condensing</li> </ul>
Storage Humidity	<ul style="list-style-type: none"> <li>• 5% to 95% RH, non-condensing</li> </ul>

## Emission (EMI) &amp; Safety Certifications

EMI	<ul style="list-style-type: none"> <li>• CE class A</li> <li>• FCC class A</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• LVD (EN60950-1)</li> </ul>
DIS-S301SX	<ul style="list-style-type: none"> <li>• 1000BASE-SX, multi-mode, 550 m, -40 to 85 °C operating temperature</li> </ul>
DIS-S302SX	<ul style="list-style-type: none"> <li>• 1000BASE-SX, multi-mode, 2 km, -40 to 85 °C operating temperature</li> </ul>
DIS-S310LX	<ul style="list-style-type: none"> <li>• 1000BASE-LX, single-mode, 10 km, -40 to 85 °C operating temperature</li> </ul>



For more information: [www.dlink.com](http://www.dlink.com)

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Updated December 2019

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