D-Link®

Product Highlights

Covers Vast Distances

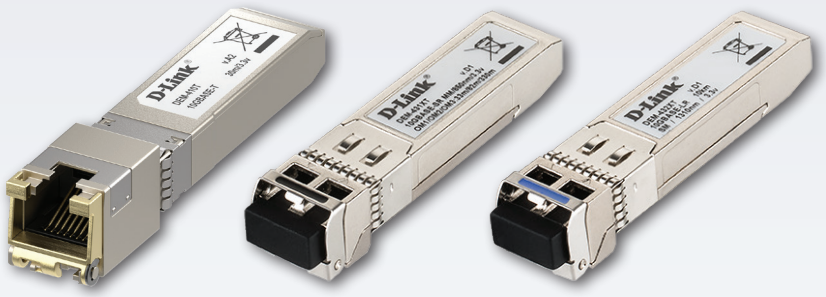
Support for maximum fibre lengths of up to 10 km, ideal for businesses spanning multiple premises, as well as copper lengths of up to 30 m

High Performance

Full duplex Gigabit data transfer rates provide the network transmission speeds that business environments demand

Hot Pluggable

Easily switch out transceivers while the power is on, facilitating network maintenance and minimising downtime



DEM-400 Series

10 Gigabit SFP Transceivers

Features

- Enhanced Small Form-Pluggable (SFP+) form factor
- Hot pluggable
- Support 10G Ethernet
- Support fibre cables up to 10 km
- Support copper cables up to 30 m
- RoHS Compliant
- Compliant with MSA (Multiple Source Agreement)
- Compliant with IEEE802.3ae standard

D-Link's 10G SFP+ Module series are hot-swappable SFP+ transceivers that plug into SFP+ slots on switches and support 10G Ethernet. The D-Link 10GBASE SFP+ Module Series transceivers offer customers a wide variety of 10G Ethernet connectivity options for data centres, enterprise wiring closets, and service provider transport applications. They are hot-pluggable and Enhanced Small Form Factor Pluggable (SFP+) compliant with the Multi-Source Agreement (MSA) specification.

Enhanced Small Form-factor Pluggable Format

The transceivers use the Enhanced Small Formfactor Pluggable format (SFP+). The SFP+ form factor is smaller than other form factors such as Xenpak, X2, and 10G XFP, ensuring lower costs, lower power disruption, and higher port density. They provide the necessary signal amplification for data to be transmitted to the network cable from the port, and vice versa, for the port to receive data from the network cable.

Hot-Pluggable

All D-Link transceivers are hot-pluggable. You can connect a transceiver while the system is powered on without causing any problems. This permits modules to be added or removed without interrupting the network.

10G Ethernet Speeds

The transceivers all support 10G Ethernet, which results in very fast data transmissions of up to 10 Gbit/s. This is 10 times faster than Gigabit Ethernet and enables the switch to handle faster and higher data transmissions, making it very suitable for business needs.

DEM-400 Series 10 Gigabit SFP Transceivers

Technical Specifications

	DEM-410T	DEM-431XT	DEM-432XT
Standard Compliance	• IEEE 802.3an 10GBase-T • IEEE 802.3ab 1000BASE-T	• IEEE-802.3ae • 10GBASE-SR	• IEEE-802.3ae • 10GBASE-LR
Transceiver Type	• SFP+	• SFP+	• SFP+
Fibre Channel FC-PI Standard		• 1200-Mx-SN-I	• 1200-SM-LL-L
Fiber Media Support		• Multi-Mode	• Single-Mode
Distance Capacity[1]	• 10GBASE-T up to 30 m	• 62.5 µm, 160 MHz-km: 26 m • 62.5 µm, OM1 200 MHz-km: 33 m • 50 µm, 400 MHz-km: 66 m • 50 µm, OM2 500 MHz-km: 82 m • 50 µm, OM3 2000 MHz-km: 300 m • 50 µm, OM4 3700 MHz-km: 550 m	• 10 km
Hot Pluggable		✓	✓
MSA Compliant		✓	✓
RoHS Compliant	✓	✓	✓
Speed		• 10 Gbps	• 10 Gbps
Connector	• RJ45	• Duplex LC connector	• Duplex LC connector
Single/Bi Direction		• Single-direction	• Single-direction
Wavelength		• 850 nm	• 1310 nm
Output Optical Power (TX Optical Power)		• Max.: -1 dBm / Min.: -6.5 dBm	• Max.: 0.5 dBm / Min.: -8.5 dBm
Input Optical Power (RX Optical Power)		• Max.: -1 dBm / Min.: -11.1 dBm	• Max.: 0.5 dBm / Min.: -8.5 dBm
Sensitivity		• -11.1 dBm	• -12.6 dBm
Cable Type	• Cat6a	• Multi-mode 50/125 um or 62.5/125 um fibre	• Single-mode 9/125 um fibre
Power / Maximum Input Current	• 3.3 V: 700 mA	• 3.3 V: 300 mA	• 3.3 V: 300 mA
Minimum / Maximum Power Budget		• 4.6 dB / 10.1 dB	• 4.1 dB / 10.1 dB
Heat Generated		• 3.6 kJ/h	• 3.6 kJ/h
MTBF (Hours)	• 217,186	• 3,960,000	• 4,650,000
Operating Temperature	• 0 to 60 °C	• 0 to 70 °C	• 0 to 70 °C
Storage Temperature	• -40 to 85 °C	• -40 to 85 °C	• -40 to 85 °C
Operating Humidity	• 5 to 95%	• 5 to 85%	• 5 to 85%
Storage Humidity	• 5 to 95%	• 5 to 95%	• 5 to 95%
Dimensions (W x D x H)	• 13.7 x 68 x 8.5 mm	• Compliant with SFF8432, 14.8 x 56.5 x 11.85 mm	• Compliant with SFF8432, 14.8 x 56.5 x 11.85 mm
Weight	• 20 g	• 18 g	• 19.5 g
Bail Latch Color	• Gold	• Black	• Blue
EMI	• CE, FCC, VCCI	• CE, FCC, VCCI	• CE, FCC, VCCI
Safety	• LVD	• UL, TUV, CDRH	• UL, TUV, CDRH

For more information: www.dlink.com

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