

Ethernet SFP Transceivers

For Optical Fiber

- Industry Standard 802.3u Compliance
- Multi-Source Agreement (MSA) Specification Compliance
- 200Mbps Full Duplex Data Transfer Rate

FEATURES

- **Small Form Factor Pluggable (SFP) Multi-Source Agreement (MSA) Specification Compliant**
- **IEEE 802.3u 100BASE-FX Standard**
- **2 km Multi-Mode or 15 km Single-Mode Fiber**
- **Hot-Swappable**
- **FDA, CDRH, TUV Laser Eye Safety Certified**



D-Link's DEM-210 and DEM-211 SFP transceivers provide a high performance solution for serial optical data communication applications. They are hot-swappable, Small Form Factor Pluggable (SFP) compliant with the Multi-Source Agreement (MSA) specification. The transceivers have duplex LC connectors and provide IEEE 802.3u compliant link for up to 100Mbps in the half duplex mode (or 200Mbps full-duplex mode) transmission for fiber cable applications.

D-Link's highly integrated transceivers offer low jitter performance for extended optical links support without performance degradation. This high performance enables reliable data transfer in short-, intermediate- and long-distances for building, factory, campus and metropolitan networking applications.

Previous combo-port switch designs have only provided Gigabit copper or SFP fiber-optic connectivity but not 100BASE-FX SFP fiber-optic connectivity. Switch designs like the DES-1226G and DES-3526 are of the former type. D-Link now provides 100BASE-FX SFP fiber-optic connectivity on Gigabit combo SFP ports for new switch model designs¹. Further, in our effort to offer a full product portfolio, D-Link has developed the DEM-210 100BASE-FX SFP transceiver which can plug-in to the Gigabit combo SFP fiber-optic slot of selected switches to provide 100BASE-FX connectivity.

1 : The transceiver connects with certain specific supported D-Link switches. It is not for use in the Gigabit SFP fiber-optic ports found in other switches. The current list of D-Link switches that support the new module includes the following: DES-1228, DES-1228P, DES-1252, DHS-3028, DHS-3628F, DHS-3626F, DGS-3612G.



	DEM-210	DEM-211
		
Cable	Single-Mode Fiber	Multi-Mode Fiber
Fiber Type	9/125um Single-Mode	62.5/125um Multi-Mode
Max. Cable Distance	15 km	2 km
Standard	802.3u 100BASE-FX	802.3u 100BASE-FX
Data Rates	100Mbps	100Mbps
Port Type	Duplex LC	Duplex LC
RoHS Compliant	√	√
Wavelength	1310nm	1310 nm
Output Optical Power	Max. -8dBm, Min. -15dBm	Max. -14dBm, Min. -19dBm
Sensitivity	-32dBm	-32 dBm
Power Budget	17dB	13dB
Power Voltage	3.3V	3.3V
Operating Temperature	0° to 70° C	0° to 70° C
Storage Temperature	-40° to 85° C	-40° to 85° C
Operating Humidity	10% to 90% Non-Condensing	10% to 90% Non-Condensing
Storage Humidity	5% to 90% Non-Condensing	5% to 90% Non-Condensing
Emission	FCC Class B, CE, ICES-003, VCCI	FCC Class B, CE, ICES-003, VCCI
Safety	FDA/CDRH, TUV, UL	FDA/CDRH, TUV, UL

D-Link Worldwide Offices

U.S.A.	TEL: 1-800-326-1688	FAX: 1-866-743-4905	Luxemburg	TEL: 32-(0)2-517-7111	FAX: 32-(0)2-517-6500
Canada	TEL: 1-905-8295033	FAX: 1-905-8295223	Poland	TEL: 48-(0)-22-583-92-75	FAX: 48-(0)-22-583-92-76
Europe (U. K.)	TEL: 44-20-8955-9000	FAX: 44-20-8955-9001	Hungary	TEL: 36-(0)-1-461-30-00	FAX: 36-(0)-1-461-30-09
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300	Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
France	TEL: 33-1-30238688	FAX: 33-1-30238689	Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
Netherlands	TEL: 31-10-282-1445	FAX: 31-10-282-1331	India	TEL: 91-022-26526696	FAX: 91-022-26528914
Belgium	TEL: 32(0)2-517-7111	FAX: 32(0)2-517-6500	Middle East (Dubai)	TEL: 971-4-3916480	FAX: 971-4-3908881
Italy	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723	Turkey	TEL: 90-312-473-40-55	FAX: 90-312-473-40-58
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901	Egypt	TEL: 202-291-9035	FAX: 202-291-9051
Denmark	TEL: 45-43-969040	FAX: 45-43-424347	Israel	TEL: 972-9-9715700	FAX: 972-9-9715601
Norway	TEL: 47-99-300-100	FAX: 47-22-309580	LatinAmerica	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Finland	TEL: 358-9-2707 5080	FAX: 358-9-2707-5081	Brazil	TEL: 55-11-218-59300	FAX: 55-11-218-59322
Spain	TEL: 34-93-4090770	FAX: 34-93-4910795	South Africa	TEL: 27-12-665-2165	FAX: 27-12-665-2186
Portugal	TEL: 351-21-8688493		Russia	TEL: 7-495-744-0099	FAX: 7-495-744-0099 #350
Czech Republic	TEL: 420-(603)-276-589		Japan	TEL: 81-3-5781-0963	FAX: 81-3-5781-0965
Switzerland	TEL: 41-(0)-1-832-11-00	FAX: 41(0)-1-832-11-01	China	TEL: 86-10-58635800	FAX: 86-10-58635799
Greece	TEL: 30-210-9914 512	FAX: 30-210-9916902	Taiwan	TEL: 886-2-6600-0123	FAX: 886-2-6600-8168
			Headquarters	TEL: 886-2-6600-0123	FAX: 886-2-6600-9898