

## 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 designs<sup>1</sup>. 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.

<sup>1</sup> : 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
		
<b>Cable</b>	Single-Mode Fiber	Multi-Mode Fiber
<b>Fiber Type</b>	9/125um Single-Mode	62.5/125um Multi-Mode
<b>Max. Cable Distance</b>	15 km	2 km
<b>Standard</b>	802.3u 100BASE-FX	802.3u 100BASE-FX
<b>Data Rates</b>	100Mbps	100Mbps
<b>Port Type</b>	Duplex LC	Duplex LC
<b>RoHS Compliant</b>	✓	✓
<b>Wavelength</b>	1310nm	1310 nm
<b>Output Optical Power</b>	Max. -8dBm, Min. -15dBm	Max. -14dBm, Min. -19dBm
<b>Sensitivity</b>	-32dBm	-32 dBm
<b>Power Budget</b>	17dB	13dB
<b>Power Voltage</b>	3.3V	3.3V
<b>Operating Temperature</b>	0° to 70° C	0° to 70° C
<b>Storage Temperature</b>	-40° to 85° C	-40° to 85° C
<b>Operating Humidity</b>	10% to 90% Non-Condensing	10% to 90% Non-Condensing
<b>Storage Humidity</b>	5% to 90% Non-Condensing	5% to 90% Non-Condensing
<b>Emission</b>	FCC Class B, CE, ICES-003, VCCI	FCC Class B, CE, ICES-003, VCCI
<b>Safety</b>	FDA/CDRH, TUV, UL	FDA/CDRH, TUV, UL

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