D-Link®

DEM-431XT-DD/432XT-DD/435XT-DD

10Gbps SFP+ Transceivers

Features

• Enhanced Small Form-Pluggable (SFP+) form factor
• Hot pluggable
• Support 10G Ethernet
• Feature Digital Diagnostics Monitoring (DDM)
• RoHS Compliant
• Compliant with MSA (Multiple Source Agreement)
• Compliant with IEEE802.3ae and 802.3aq standards

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 centers, enterprise wiring closets, and service provider transport applications.

Enhanced Small Form-factor Pluggable Format
D-Link's DGS-150
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.

10G Ethernet speeds
The transceivers all support 10G Ethernet, which results in very fast data transmissions of up to 10Gbit/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.

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.

Digital Diagnostics Monitoring (DDM)
The 10G SFP+ Modules feature DDM ,realtime monitoring of critical parameters, including transmitted and received power, temperature, and voltage. This allows for convenient monitoring of the module's fiber connection and early detection of problems.

Technical Specifications

	DEM-431XT-DD	DEM-432XT-DD	DEM-435XT-DD

Standard

Standard Compliance	IEEE-802.3ae 10GBASE-SR	IEEE-802.3ae 10GBASE-LR	IEEE-802.3ae IEEE-802.3aq 10GBASE-LRM
Form Factor Type	SFP+		
Fibre Channel FC-PI Standard	1200-Mx-SN-I	1200-SM-LL-L	N/A
Fiber Media Support	Multi-Mode	Single-Mode	
Distance Capacity	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	10 km	62.5 μm, 160MHz-km: 220 m 62.5 μm, OM1, 200MHz-km: 220 m 50 μm, 400MHz-km: 100 m 50 μm, OM2, 500MHz-km: 220 m 50 μm, OM3, 2000MHz-km: 220 m

Features

Hot Pluggable	Yes		
MSA Compliant	Yes		
RoHS Compliant	Yes		
MAC Address Update	Yes		
DDM (Digital Diagnostics Monitoring)	Yes		

Speed

Speed	10 Gbps		

Interface

Connector	Duplex LC Connector		
Single/Bi-Directional	Single Direction		
Wavelength	850nm	1310nm	
Output Optical Power (TX Optical Power)	Max.: -1 dBm Min.: -5 dBm	Max.: 0.5 dBm Min.: -8.2 dBm	Max.: 1.5 dBm Min.: -4.5 dBm
Input Optical Power (RX Optical Power)	Max.: 0.5 dBm Min.: -11.1 dBm	Max.: 0.5 dBm Min.: -12.6 dBm	Max.: 1.5 dBm Min.: -6.5 dBm
Sensitivity	-11.1 dBm	-12.6 dBm	-6.5 dBm
Cable Type	Multi-mode 50/125 μm or 62.5/125 μm fiber	Single-mode 9/125 μm fiber	Multi-mode 50/125 μm 62.5/125 um fiber

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Operating			
Power	3.3 V		
Maximum Input Current	250 mA	285 mA	300 mA
Minimum Power Budget	6.1 dB	4.4 dB	2 dB
Maximum Power Budget	10.1 dB	17.6 dB	8 dB
Heat Generated	2.9 kJ/h	3.4 kJ/h	3.6 kJ/h
Reliability			
MTBF (Hours)	5,948,000	3,390,000	4,140,000
Physical and Environment			
Operating Temperature	0 to 70 °C	-5 to 70 °C	
Storage Temperature	-40 to 85 °C		
Operating Humidity	0 to 85%		
Storage Humidity	0 to 85%		
Weight	0.05 lbs (22g)		
Dimensions (W x D x H)	0.58 x 2.22 x 0.47 inches (14.8 x 56.5 x 11.85 mm) Compliant with SFF8432		
Bail Latch Color	Beige	Blue	Brown
Weight	FCC Class A, CE Class A, ICES-003, VCCI Class A, C-Tick, BSMI		
Emission(EMI) and Safety			
EMI	CE, FCC, VCCI		
Safety	CSA, TUV, CDRH		
QR Codes	DEM-431XT-DD	DEM-432XT-DD	DEM-435XT-DD
Scan Codes for more Information			

For more information

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