

Product Highlights

10 Gigabit Ethernet speeds

Fast transfer of large amounts of data

Hot-swappable SFP+

Installation/replacement without equipment downtime

Digital Diagnostics Monitoring (DDM)

Allows for early problem detection on the fiber



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

10 Gigabit Ethernet Optical SFP+ Transceivers

Features

- 10GBASE-SR model supports multimode fiber for general business applications, up to 400m on OM4 cable
- 10GBASE-LRM model intended for legacy FDDI-grade multimode fiber, up to 220m
- 10GBASE-LR model supports distances up to 10km on single-mode fiber
- Interoperable and certified with D-Link 10G switches
- Enhanced Small Form-Pluggable (SFP+) form factor
- Hot pluggable
- Supports 10G Ethernet
- Digital Diagnostics Monitoring (DDM)
- RoHS Compliant
- Compliant with MSA (Multiple Source Agreement)
- Compliant with IEEE802.3ae and 802.3aq standards

Overview

D-Link's 10G SFP+ modules are hot-swappable 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

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 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 10Gbps. 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	
					
General					
Standards Compliance		IEEE-802.3ae 10GBASE-SR	IEEE-802.3ae 10GBASE-LR	IEEE-802.3aq 10GBASE-LRM	
Form Factor Type		SFP+	SFP+	SFP+	
Fibre Channel FC-PI Standard		1200-Mx-SN-I	1200-SM-LL-L	N/A (no standard definition)	
Fiber Media Supported		Multimode 50/125 µm 62.5/125 µm	Single-mode 9/125 µm	Multimode 50/125 µm 62.5/125 µm	
Distance Capacity					
Fiber type		Min. Modal B/W (MHz-km)	Distance	Distance	Distance ¹
MMF	62.5 µm	160	26m	—	220m
MMF: OM1	62.5 µm	200	33m	—	220m
MMF	50 µm	400	66m	—	100m
MMF: OM2	50 µm	500	82m	—	220m
MMF: OM3	50 µm	2000	300m	—	220m
MMF: OM4	50 µm	4700	400m	—	—
SMF	9 µm	N/A	—	10 Km	—
Features					
Hot Pluggable		Yes	Yes	Yes	Yes
MSA Compliant		Yes	Yes	Yes	Yes
RoHS Compliant		Yes	Yes	Yes	Yes
MAC Address Update		Yes	Yes	Yes	Yes
DDM (Digital Diagnostics Monitoring)		Yes	Yes	Yes	Yes
Speed					
Speed		10 Gbps	10 Gbps	10 Gbps	10 Gbps
Interface					
Connector		Duplex LC	Duplex LC	Duplex LC	Duplex LC
Single/Bi-Directional		Single Direction	Single Direction	Single Direction	Single Direction
Wavelength		850nm	1310nm	1310nm	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	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	Max.: +1.5 dBm Min.: -6.5 dBm
Sensitivity		-11.1 dBm	-12.6 dBm	-6.5 dBm	-6.5 dBm
Operating					
Power		3.3V	3.3V	3.3V	3.3V
Maximum Input Current		3.3V: 250mA	3.3V: 285mA	3.3V: 300mA	3.3V: 300mA
Minimum Power Budget		6.1 dB	4.4 dB	2 dB	2 dB
Maximum Power Budget		10.1 dB	17.6 dB	8 dB	8 dB
Heat Generated		2.9 kJ/h	3.3858 kJ/h	3.564 kJ/h	3.564 kJ/h

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Reliability			
MTBF (hours)	5,948,000	3,390,000	4,140,000
Physical and Environmental			
Operating Temperature	0° to 70°C	-5° to 70°C	-5° to 70°C
Storage Temperature	-40° to 85°C	-40° to 85°C	-40° to 85°C
Operating Humidity	0% to 85%	0% to 85%	0% to 85%
Storage Humidity	0% to 85%	0% to 85%	0% to 85%
Dimensions (W x D x H)	Compliant with SFF8432 14.8 x 56.5 x 11.85mm	Compliant with SFF8432 14.8 x 56.5 x 11.85mm	Compliant with SFF8432 14.8 x 56.5 x 11.85mm
Weight	22 g	22 g	22 g
Bail Latch Color	Beige	Blue	Brown
Emissions (EMI) and Safety Certifications			
EMI	CE, FCC, VCCI	CE, FCC, VCCI	CE, FCC, VCCI
Safety	CSA, TUV, CDRH	CSA, TUV, CDRH	CSA, TUV, CDRH
Warranty			
Warranty	2 Year Limited	2 Year Limited	2 Year Limited

¹ A mode-conditioning patch cord, as specified by the IEEE standard, may be required.

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For more information

U.S.A. | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | dlink.com

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