

### Feature Highlights

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

<sup>1</sup>DEM-436XT-BXD and DEM-436XT-BXU models only.

### 10G SFP+ Modules



D-Link's DEM-400 Series transceivers are hot-swappable SFP+ transceivers that plug into SFP+ slots on switches and support 10G Ethernet. They 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

The transceivers use the Enhanced Small Form-factor 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.

#### Bi-Directional WDM Transmission<sup>1</sup>

Bi-directional WDM transmission allows data to be transmitted simultaneously in both directions on a fiber cable. This helps you save on the cost of deploying extra fiber cables as well as allows for more flexible bandwidth allocation.

### Technical Specifications

#### DEM-410T

#### DEM-431XT

#### DEM-432XT



		DEM-410T	DEM-431XT	DEM-432XT
Standard	Standard Compliance	IEEE-802.3ae 10GBASE-T	IEEE-802.3ae 10GBASE-SR	IEEE-802.3ae 10GBASE-LR
	Form Factor Type	RJ45	SFP+	SFP+
	Fibre Channel FC-PI Standard	—	1200-Mx-SN-I	1200-SM-LL-L
	Fiber Media Support	—	Multi-Mode	Single-Mode
	Distance Capacity	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	10 km
Features	Hot Pluggable	✓	✓	✓
	MSA Compliant	✓	✓	✓
	RoHS Compliant	✓	✓	✓
Speed	Speed	10 Gbps	10 Gbps	10 Gbps
Interface	Connector	RJ45	Duplex LC Connector	Duplex LC Connector
	Single/Bi-Directional	—	Single Direction	Single Direction
	Wavelength	—	850 nm	1310 nm
	Output (TX) Optical Power	—	Max.: -1 dBm Min.: -5 dBm	Max.: 0 dBm Min.: -8 dBm
	Input (RX) Optical Power	—	Max.: 0 dBm Min.: -11.5 dBm	Max.: 0 dBm Min.: -14.5 dBm
	Sensitivity	—	-11.5 dBm	-14.5 dBm
	Cable Type	CAT.6A	Multi-mode 50/125 um or 62.5/125 um fiber	Single-mode 9/125 um fiber
Operating	Power	3.3 V	3.3 V	3.3 V
	Maximum Input Current	700 mA	300 mA	300 mA
	Minimum Power Budget	—	6.5 dB	9.5 dB
	Maximum Power Budget	—	10.5 dB	14.5 dB
	Heat Generated	—	2.376 kJ/h	4.158 kJ/h
Reliability	MTBF (Hours)	217,186	213,975	207,861
Function	Digital Diagnostics Monitoring	—	—	—
Physical and Environment	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 95%	5 to 95%
	Storage Humidity	5 to 95%	5 to 95%	5 to 95%
	Dimensions (W x D x H)	(0.54 x 2.68 x 0.33 inches) 13.7 x 68 x 8.5 mm	13.7 x 55.4 x 8.5 mm (0.53 x 2.18 x 0.33 inches) Compliant with SFF8432	13.7 x 55.4 x 8.5 mm (0.53 x 2.18 x 0.33 inches) Compliant with SFF8432
	Weight	20 g (0.04 lbs)	20 g (0.04 lbs)	20 g (0.04 lbs)
	Bail Latch Color	Gold	Beige	Blue
EMI and Safety	EMI	FCC Class B, ICES-003 Class B, CE Class B	FCC Class B, ICES-003 Class B, CE Class B	FCC Class B, ICES-003 Class B, CE Class B
	Safety	LVD	LVD	LVD

## Technical Specifications

### DEM-433XT

### DEM-434XT

### DEM-435XT



Standard	Standard Compliance	IEEE-802.3ae 10GBASE-ER	IEEE-802.3ae 10GBASE-ZR	IEEE-802.3ae IEEE-802.3aq 10GBASE-LRM
	Form Factor Type	SFP+	SFP+	SFP+
	Fibre Channel FC-PI Standard	N/A	1200-SM-LL-L 10G Fiber Channel	N/A
	Fiber Media Support	Single-Mode	Single-Mode	Multi-Mode
	Distance Capacity	40 km	80 km	62.5/125 um: 100 m 50 um, OM2, 500MHz-km: 220 m 50 um, OM3, 2000MHz-km: 220 m 50 um, OM4, 2000MHz-km: 220 m
Features	Hot Pluggable	✓	✓	✓
	MSA Compliant	✓	✓	✓
	RoHS Compliant	✓	✓	✓
Speed	Speed	10 Gbps	10 Gbps	10 Gbps
Interface	Connector	Duplex LC Connector	Duplex LC Connector	Duplex LC Connector
	Single/Bi-Directional	Single Direction	Single Direction	Single Direction
	Wavelength	1550 nm	1550 nm	1310 nm
	Output (TX) Optical Power	Max.: 4 dBm Min.: -2 dBm	Max.: 5 dBm Min.: 0 dBm	Max.: 0 dBm Min.: -5 dBm
	Input (RX) Optical Power	Max.: 0 dBm Min.: -15 dBm	Max.: -8 dBm Min.: -22 dBm	Max.: 0 dBm Min.: -12 dBm
	Sensitivity	-15 dBm	-22 dBm	-12 dBm
	Cable Type	Single-mode 9/125 um fiber	Single-mode 9/125 um fiber	Multi-mode 50/125 um or 62.5/125 um fiber
Operating	Power	3.3 V	3.3 V	3.3 V
	Maximum Input Current	300 mA	300 mA	300 mA
	Minimum Power Budget	13 dB	22 dB	7 dB
	Maximum Power Budget	19 dB	27 dB	12 dB
	Heat Generated	6.118 kJ/h	7.05 kJ/h	4.158 kJ/h
Reliability	MTBF (Hours)	213,975	207,861	213,975
Function	Digital Diagnostics Monitoring	—	—	—
Physical and Environment	Operating Temperature	-5 to 70 °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 85%	5 to 85%	5 to 85%
	Storage Humidity	5 to 95%	5 to 85%	5 to 95%
	Dimensions (W x D x H)	14.8 x 56.5 x 11.85 mm (0.58 x 2.22 x 0.47 inches) Compliant with SFF8432	14.3 x 56.5 x 11.85 mm (0.58 x 2.22 x 0.47 inches) Compliant with SFF8432	14.8 x 56.5 x 11.85 mm (0.58 x 2.22 x 0.47 inches) Compliant with SFF8432
	Weight	20 g (0.04 lbs)	20 g (0.04 lbs)	18.5 g (0.04 lbs)
	Bail Latch Color	Red	White	Brown
EMI and Safety	EMI	FCC Class B, ICES-003 Class B, CE Class B	FCC Class B, ICES-003 Class B, CE Class B	FCC Class B, ICES-003 Class B, CE Class B
	Safety	LVD	LVD	LVD

### Technical Specifications

#### DEM-436XT-BXD

#### DEM-436XT-BXU



Standard	Standard Compliance	IEEE-802.3ae 10GBASE-LR	IEEE-802.3ae 10GBASE-LR
	Form Factor Type	SFP+	SFP+
	Fibre Channel FC-PI Standard	N/A	N/A
	Fiber Media Support	Single-Mode	Single-Mode
	Distance Capacity	20 km	20 km
Features	Hot Pluggable	✓	✓
	MSA Compliant	✓	✓
	RoHS Compliant	✓	✓
Speed	Speed	10 Gbps	10 Gbps
Interface	Connector	Simplex LC Connector	Simplex LC Connector
	Single/Bi-Directional	WDM Bi-directional	
	Wavelength	TX: 1330 nm, RX: 1270 nm	TX: 1270 nm, RX: 1330 nm
	Output (TX) Optical Power	Max.: 0 dBm Min.: -5 dBm	Max.: 0 dBm Min.: -5 dBm
	Input (RX) Optical Power	Max.: 0 dBm Min.: -13 dBm	Max.: 0 dBm Min.: -13 dBm
	Sensitivity	-13 dBm	-13 dBm
	Cable Type	Single-mode 9/125 um fiber	Single-mode 9/125 um fiber
Operating	Power	3.3 V	3.3 V
	Maximum Input Current	300 mA	300 mA
	Minimum Power Budget	8 dB	8 dB
	Maximum Power Budget	13 dB	13 dB
	Heat Generated	4.158 kJ/h	4.158 kJ/h
Reliability	MTBF (Hours)	207,861	207,861
Function	Digital Diagnostics Monitoring	—	—
Physical and Environment	Operating Temperature	0 to 70 °C	0 to 70 °C
	Storage Temperature	-40 to 85 °C	-40 to 85 °C
	Operating Humidity	5 to 95%	5 to 95%
	Storage Humidity	5 to 95%	5 to 95%
	Dimensions (W x D x H)	13.7 x 55.4 x 8.5 mm (0.53 x 2.18 x 0.33 inches) Compliant with SFF8432	13.7 x 55.4 x 8.5 mm (0.53 x 2.18 x 0.33 inches) Compliant with SFF8432
	Weight	20 g (0.04 lbs)	20 g (0.04 lbs)
	Bail Latch Color	Blue	Blue
EMI and Safety	EMI	FCC Class B, ICES-003 Class B, CE Class B	FCC Class B, ICES-003 Class B, CE Class B
	Safety	LVD	LVD