

### Standard Compliance

- Compliant with IEEE 802.3z Gigabit Standard
- Self-contained in Standard Small Form Pluggable (SFP) Package
- Simplex LC Connector
- Interoperable with D-Link Switches

### Long-Distance Fiber

#### Application

- Maximum 10 km Fiber Cable Distance (DEM-330T/330R)
- Maximum 40 km Fiber Cable Distance (DEM-331T/331R)
- Use Single-mode Fiber Cable
- Use Single Fiber Strand for Transmission/Reception

### Optimal Bidirectional

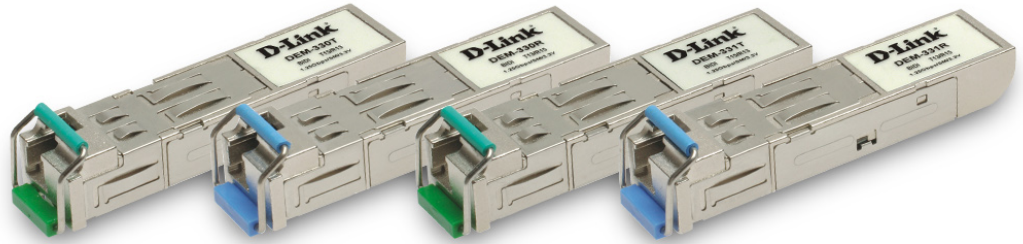
#### Operation

- Gigabit Operation
- Bidirectional Operation Using Separate Transmit and Receive Wavelengths

### Versatile, Sturdy Devices

- Single 3.3V Power Supply
- Hot Swappable
- Durable Metal Enclosure

## Bidirectional SFP Gigabit Fiber Transceivers



The DEM-330T/330R and DEM-331T/331R Bidirectional Gigabit SFP Fiber Transceivers are external transceivers designed for insertion in SFP (Small Form-Factor Pluggable) slots of network devices for transmission and reception of data signals on the fiber cables. These transceivers provide the Gigabit operation and physical compactness to deliver the speed, reliable long-distance data transfer, and deployment flexibility that today's fiber networks require.

#### Ideal for Long Distance Application

The DEM-330T/330R and DEM-331T/331R transceivers can be used to connect together switches, servers and fiber modules on a campus or metropolitan area network (MAN). Providing up to 10 km (DEM-330T/330R) or 40 km (DEM-331T/331R) of fiber cable distance, these highly integrated transceivers offer low jitter performance for extended optical link support without any degradation in performance.

#### Reliable Transmission

The DEM-330T/330R and DEM-331T/331R transceivers combine transmitting and receiving signals onto one fiber strand using two wavelengths. These transceivers are used in pair. At one end, one transceiver uses one wavelength to transmit and a second wavelength to receive. At the other end, the other transceiver flips that relationship.





#### Standard Compliance

The DEM-330T/330R and DEM-331T/331R transceivers use standard simplex LC connectors for fiber cable connection. They conform to industry standards and are interoperable with D-Link Gigabit switches. Hot-swap capability allows network administrators to plug or unplug them from the SFP slots without having to turn off the power of the connected device.

#### Durable

The DEM-330T/330R and DEM-331T/331R transceivers are packed in a Small Form Pluggable (SFP) metal housing to increase durability.

### Technical Specifications

	DEM-330T	DEM-330R	DEM-331T	DEM-331R
				
Standard	IEEE802.3z 1000BASE-BX-D	IEEE802.3z 1000BASE-BX-U	IEEE802.3z 1000BASE-BX-D	IEEE802.3z 1000BASE-BX-U
Wavelength	Tx: 1550nm, Rx: 1310 nm	Tx: 1310nm, Rx: 1550 nm	Tx: 1550nm, Rx: 1310 nm	Tx: 1310nm, Rx: 1550 nm
Connector	Simplex LC			
Fiber Type	9/125um Single-mode Fiber			
Maximum Fiber Cable Length	10 km	10 km	40 km	40 km
Transmit Power Range	-3 to -9 dBm	-3 to -9 dBm	2 to -3 dBm	2 to -3 dBm
Receive Power Range	-1 to -21 dBm	-1 to -21 dBm	-1 to -23 dBm	-1 to -23 dBm
Sensitivity	-21 dBm	-21 dBm	-23 dBm	-23 dBm
Min. Power Budget	12 dB	12 dB	20 dB	20 dB
Max. Power Budget	18 dB	18 dB	25 dB	25 dB
Power Support	3.3 V			
Supply Current	300 mA	250 mA	300 mA	300 mA
Heat Generated	1.78 kJ/h	1.78 kJ/h	2.14 kJ/h	2.14 kJ/h
MTBF	445,890 hours	445,890 hours	420,660 hours	420,660 hours
Dimensions	13.4 mm (W) x 55.5 mm (D) x 11.28 mm (H)			
Weight	19.8 grams	19.8 grams	20 grams	20 grams
Emission (EMI) Certification	FCC Class B, ICES-003 Class B, CE Class B, VCCI Class B			
Safety Certification	TUV, UL, FDA			
RoHS	Compliant			



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