



### **DEM-331T**

1000Base-BX-D Single-Mode WDM SFP transceiver (up to 20/40 km), Tx:1550 nm, Rx:1310 nm

## **DEM-331R**

# 1000Base-BX-U Single-Mode WDM SFP transceiver (up to 20/40 km), Tx:1310 nm, Rx:1550 nm

The DEM-331T / DEM-331R bidirectional SFP fiber transceivers are external transceivers designed for insertion in SFP (Small Form-Factor Pluggable) slot of network device 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.

The DEM-331T/20KM and DEM-331R/20KM transceivers are used in pair. The DEM-331T/40KM and DEM-331R/40KM transceivers are used in pair.

#### Ideal for Long Distance Application

The DEM-331T / DEM-331R transceivers can be used to connect switches, servers and fiber modules on a campus or metropolitan area network (MAN). Providing up to 20 km (DEM-331T/20KM and DEM-331R/20KM) or 40 km (DEM-331T/40KM and DEM-331R/40KM) of fiber cable distance, these highly integrated transceivers offer low jitter performance for advanced optical communication support without any performance degradation.

#### **Reliable Transmission**

The DEM-331T / DEM-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-331T / DEM-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.



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## **DEM-331R**

1000Base-BX-U Single-Mode WDM SFP transceiver (up to 20/40 km), Tx:1310 nm, Rx:1550 nm

General features		
Model	DEM-331T	DEM-331R
Standard	IEEE 802.3z 1000Base-BX-D	IEEE 802.3z 1000Base-BX-U
Wavelength	Tx: 1550 nm, Rx: 1310 nm	Tx: 1310 nm, Rx: 1550 nm
Data Rate	1.25 Gbps	
Connector	Simplex LC	
Fiber Type	9/125 um Single-mode Fiber	
Maximum Fiber Cable Length	20 km (DEM-331T/20KM; DEM-331R/20KM) 40 km (DEM-331T/40KM; DEM-331R/40KM)	
Transmit Power Range	DEM-331T/20KM DEM-331R/20KM -3 to -9 dBm DEM-331T/40KM DEM-331R/40KM 0 to -5 dBm	
Receive Power Range	-3 to -23 dBm	
Sensitivity	-23 dBm	
Supported Features	Hot swap MSA compliant RoHS compliant	
Physical Parameters		
Power Support	3.3 V	
Supply Current	300 mA	
Temperature	Operating: 0° to 70°C Storage: -40° to 85°C	
Humidity	DEM-331T/20KM DEM-331R/20KM Operating: 0% to 85% Storage: 0% to 85% DEM-331T/40KM DEM-331R/40KM Operating: 5% to 95% Storage: 5% to 95%	
Dimensions	55.9 mm x 13.7 mm x 8.5 mm	
Order info		
DEM-331T/20KM DEM-331T/40KM	1000Base-BX-D Single-Mode WDM SFP transceiver (up to 20 km), Tx:1550 nm, Rx: 1310 nm 1000Base-BX-D Single-Mode WDM SFP transceiver (up to 40 km), Tx:1550 nm, Rx: 1310 nm	
DEM-331R/20KM DEM-331R/40KM	1000Base-BX-U Single-Mode WDM SFP transceiver (up to 20 km), Tx:1310 nm, Rx:1550 nm 1000Base-BX-U Single-Mode WDM SFP transceiver (up to 40 km), Tx:1310 nm, Rx:1550 nm	

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