

D-Link DEM-331R Datasheet



D-Link DEM-331R 1000BASE-BX-U Single-Mode 40 Km (TX-1310/RX-1550 nm) SFP Transceiver

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D-Link Gigabit SFP Transceivers plug into Gigabit and Fast Ethernet switches via their GBIC slots. They allow for the expansion of Gigabit Ethernet networks by providing high-speed connections over a fiber-optic or twisted-pair cable. The fiber-optic transceivers have standard duplex LC connectors to provide maximum compatibility. They are hot pluggable and Small Form Factor Pluggable (SFP) compliant with the Multi-Source Agreement (MSA) specification.

Hot Pluggable

All D-Link transceivers are hot pluggable. You can connect a transceiver while the system is powered on without causing any issues, and easily swap one for another without having to reboot the switch each time. This permits modules to be added or removed without interrupting the network, facilitating maintenance and greatly reducing downtime.

Small Form Pluggable (SFP) Package

The Gigabit SFP Transceivers use the Small Form-factor Pluggable (SFP) design. They provide the necessary signal amplification for data to be transmitted to the network cable from the port, and vice versa. The SFP form factor is advantageous because it is smaller than other form factors such as Xenpak, X2, and 10G XFP, ensuring lower costs, lower power disruption, and higher port density.

Multiple Applications

The DEM-331R works in conjunction with the DEM-331T 1000BASE-BX-D Single-Mode 40 Km SFP Transceiver.

Applications of the DEM-300 Series fiber transceivers include distributed multi-processing, Gigabit switch cascading, high-speed I/O file transfer, bus extension application, and channel extender/data storage. This versatility is invaluable for an expanding network, and helps the infrastructure grow with the business.

Features

- Maximum 40 km fiber cable distance
- Compliant with IEEE 802.3z Gigabit standard
- Hot-swappable
- Bi-directional TX-1310/RX-1550 nm
- MSA, RoHS-compliant
- Used with DEM-331T Single-Mode 40 Km SFP Transceiver

Specifications

- Hot Pluggable: Yes
- MSA Compliant: Yes
- RoHS Compliant: Yes
- Compliant Standard: IEEE802.3z
- Fiber Channel FC-PI standard: 100-SM-LC-L
- Transceiver Type: SFP
- Fiber Media support: Single-Mode
- Distance: 40KM
- Speed: 1.25Gbps
- connector: Simplex LC Connector
- single/bi Direction: Bi-direction
- Wavelength: 1310TX/1550RX
- Output Optical Power (TX Optical Power): MAX.: +2dBm
- Interface: MIN.: -23 dBm
- Input Optical Power (RX Optical Power): MAX.: -3 dBm
- Sensitivity: -23dBm
- Cable Type: single-mode 9/125um fiber

- Power: 3.3V
- Max Input Current: 300 mA
- Power Budget (MIN Power Budget): 11dB
- MAX Power Budget: 18dB
- Heat Generated: 1.782kJ/h
- MTBF (hours): 880,000
- Operation Temperature: 0~70
- Storage Temperature: -40~85
- Humidity (Operating): 5~95
- Humidity (Storage): 5~95
- Dimension (W x D x H): 13.5*56.6*8.5
- Weight: 21+/-1g

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