# BROCADE 1 GBPS ELECTRICAL TRANSCEIVER

## DATA CENTER NETWORK

## Optimized, Certified Electrical Transceivers for Network Connectivity

### HIGHLIGHTS

- Provides high system reliability based on rigorous qualification and certification testing
- Leverages unique design parameters to provide the highest performance with industry-leading Brocade solutions, supporting business continuity
- Helps eliminate issues related to SFP incompatibility, reducing downtime and support costs
- Minimizes issues resulting from unexpected design changes, providing ongoing end-to-end compatibility

Today's enterprise data centers and networking environments are undergoing an infrastructure transformation, requiring higher speeds, greater scalability, and higher levels of performance and reliability to better meet the demands of business. As speed and performance needs increase, electrical transceivers have become an integral part of overall system design. However, electrical transceiver design margins and parameters vary widely, and can be the difference between an optimized, highly reliable fabric and incompatibility issues that drive up support costs.

The Brocade® 1 Gbps Ethernet electrical transceiver, part of the Brocade family of Small Form-Factor Pluggable (SFP) transceivers, is optimized to fully leverage Brocade backbone, director, and switch products. Together, these transceivers provide state-of-the-art performance, helping IT organizations achieve new levels of infrastructure consolidation while expanding the capabilities of their applications and services.

### END-TO-END COMPATIBILITY AND RELIABILITY

Brocade 1 Gbps Ethernet electrical transceivers support highly reliable operations in data center networks, and are optimized for Brocade switching platforms. They undergo rigorous qualification and certification testing to provide an end-to-end solution that is easier to maintain—helping improve the availability of data center networks supporting mission-critical applications.

## BROCADE

## KEY FEATURES

Brocade 1 Gbps Ethernet electrical SFPs are hot-swappable, low-voltage (3.3 V) digital diagnostic Ethernet electrical transceivers that support high-speed serial links over category-5 cables at 1.25 Gbps.

The Brocade 1 Gbps Ethernet electrical transceiver complies with the 1000BASE-T specifications. Highlights include:

- SFP MSA compliance
- Interface specifications per IEEE 802.3 1000BASE-T
- Custom RJ-45 connector with integrated magnetics
- 100 m link lengths on category-5 cable
- Compliance with Restriction on Hazardous Substances (RoHS) directive

## FAMILY OF TRANSCEIVERS

Brocade offers a comprehensive family of reliable SFPs to provide highly compatible, high-performance connectivity to Brocade backbone, director, and switch products.

For additional ordering information, contact a Brocade representative or visit www.brocade.com/howtobuy.

## MAXIMIZING INVESTMENTS

To help optimize technology investments, Brocade and its partners offer complete solutions that include education, support, and services. For more information, contact a Brocade sales partner or visit www.brocade.com.

## BROCADE 1 GBPS ELECTRICAL SFP SPECIFICATIONS

| Systems | |
|---|---|
| Performance | 1.25 Gbps line speed, full duplex |
| Media | Hot-pluggable, industry-standard Small Form-Factor Pluggable (SFP), RJ-45 connector with integrated magnetics |
| Operating parameters | Supply voltage: 3.3 V<br>Data rate: 1.25 Gbps |

| Mechanicals | |
|---|---|
| Size | Width: 13.67 mm (0.54 inches)<br>Height: 13.97 mm (0.55 inches)<br>Depth: 66.04 mm (2.60 inches) |

| Environmentals | |
|---|---|
| Storage temperature | -40°C to 75°C |
| Operating temperature | 0°C to 70°C |

| Power | |
|---|---|
| Power dissipation | 1.1 W (max) |

| Operating Distances | |
|---|---|
| Cable | Distance |
| Shielded and unshielded twisted pair category-5 cable | 100 m per IEEE 802.3 |

**Regulatory and Standards Compliance**

- North America: UL/CSA 60950, CDRH Class 1

For information related to SFF Committee documentation, visit www.sffcommittee.org.

For information about supported SAN standards, visit www.brocade.com/sanstandards.

For information about switch and device interoperability, visit www.brocade.com/interoperability.

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