

GE-XB-P7RC

10G-BASE-T Copper SFP+ Transceiver

Features

- ✓ Supports Links up to 30m using Cat 6A Cable
- ✓ SFF-8431 and SFF-8432 MSA Compliant
- ✓ IEEE 802.3az and 802.3an Compliant
- ✓ IEEE 802.3bz for 5G&2.5G BASE-T
- ✓ Hot-pluggable SFP+ footprint
- ✓ TX Disable and RX Los function
- ✓ Fully metallic enclosure for Low EMI Emissions
- ✓ +3.3V single power supply
- ✓ Low Power Consumption (2.5W MAX @ 30m)
- ✓ Compact RJ-45 connector assembly
- ✓ Access to physical layer IC via 2-wire serial bus
- ✓ XFI/5GBASE-R/2500BASE-X/SGMII, SGMII Auto-Negotiation On
- ✓ Auto-negotiates with other 10GBase-T PHYs
- ✓ Supports 100/1000Base-T using Cat 5e cable or better
- ✓ MDI/MDIX Crossover
- ✓ Multiple Loopback Modes for Testing and Troubleshooting
- ✓ Built-in Cable Monitoring and Link Diagnostic
- ✓ Unshielded and Shielded cable support
- ✓ Operating case temperature range of 0°C to +70°C



Applications

- ✓ 10 Gigabit Ethernet over Cat 6A/7 cable
- ✓ 5 Gigabit Ethernet over Cat 6A/7 cable
- ✓ 2.5 Gigabit Ethernet over Cat 6A/7 cable
- ✓ 1.25 Gigabit Ethernet over Cat 5e cable

Description

Gigalight's GE-XB-P7RC Copper Small Form Pluggable Plus (SFP+) transceivers is high performance, cost effective module compliant with the 10 Gigabit Ethernet and 10G BASE-T standards as specified in IEEE 802.3-2015 and IEEE 802.3an, which supporting 10Gbps data-rate up to 30 meters reach over shielded twisted-pair category 6A cable. The module supports 10Gbps full duplex data-links with 16-level Pulse Amplitude Modulation (PAM) signals. The module provides standard serial ID information compliant with SFP+ MSA, which can be accessed with address of A0h via the 2wire serial bus. The physical IC can also be accessed via 2wire serial bus at address ACh.