

QSFP+ Loopback



OVERVIEW

QSFP+ series passive electrical Loopback module is used for high speed testing application for QSFP+ host ports. The module is designed for 40 Gigabit Ethernet applications and provides 4 RX and 4 TX lanes, I2C module management interface and all the QSFP+ SFF hardware signals. The module loops back 4-lane transmit data from the Host back to 4-lane receive data port to the Host, it provides an efficient way to verify QSFP+ ports during R&D test, manufacturing testing and field testing.

The module provides programmable power dissipation up to 6W allowing the module to emulate most of the QSFP+ series power classes. It also provides a voltage sense, an insertion counter, a power staging, a LED blinking rate, an upper temperature cut-off and 4 temperature sensors.

FEATURES & BENEFITS

- 3.3V voltage supply
- Supports 40Gbps electrical interface
- Loops back TX to RX on all 4 ports
- Input / Output differential 100+/-10% ohm
- -5 dB attenuation
- I2C interface & MSA compatible
- 4 independent power heaters, with 0.2W solution up to 6W based on the customized
- Hot pluggable module
- 2 status LED indicator
- Temperature monitor and alarms warning
- Customer memory maps
- Voltage monitoring
- Low speed signal control

PRODUCT APPLICATIONS

Server test - NIC IO testing  
NAS (Network Attached Storage) test  
HPC test  
Router/Switch test

INDUSTRY STANDARDS

SFF 8636  
SFF 8679  
IEEE802.3ba

TECHNICAL INFORMATION

MATERIAL

Contact gold plated 30u"  
Nickel plated zinc die cast shells & latching  
Mechanism parts  
Thermoplastic cable pull tab

ELECTRICAL PERFORMANCE

Differential impedance: 100ohm  
Current : 0.5 A/contact  
Voltage: 30 V AC/contact

MECHANICAL PERFORMANCE

Rated Durability Cycles: 250  
Latch Pull Strength: 90N MIN  
Cable Retention in Plug: 90N MIN

ENVIRONMENTAL

Storage temperature range: -40°C to +80°C  
Operating Temperature: -20°C to +80°C  
RoHS compliant

SPECIFICATION

ES-10-00-0022

Partial PN Table

Product Numbers	Product Description
LA0QF201-SD-R	QSFP+ Loopback -5dB 3.5W