

QSFP-DD Loopback Module



The Lorom QSFP-DD loopback module effectively tests QSFP-DD ports in the host system by looping back the electrical signal. The loopback supports data rates of up to 400 Gbps. The hot pluggable feature allows changing to/from another QSFP-DD compatible module without having to remove system power. Each module provides serial ID information which describes the part number in the EEPROM. The Lorom QSFP-DD loopback module provides an economical way to exercise QSFP-DD ports during R&D validation, production testing and field testing. It is available with an optional LED light at the front as a status indicator.



Product Features & Benefits

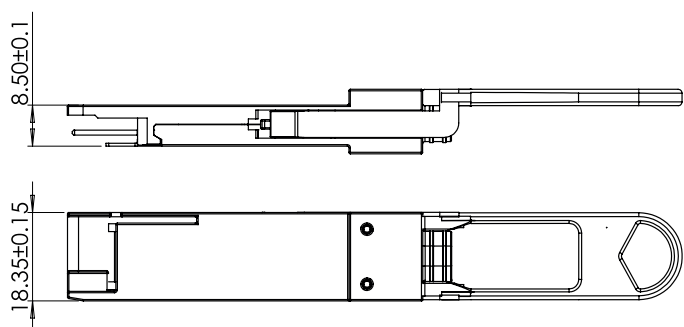
- Broadband operation capabilities for data rate up to 400 Gbps
- Extended plug cycle life
- Excellent EMC/EMI performance
- Customized loopback module solutions including EEPROM contents
- Proprietary high-speed PCB design minimizes the impedance discontinuity and crosstalk
- Different pull-tab color options
- Support various levels of power consumption and attenuation at DC
- QSFP-DD MSA Compliant
- Temperature range from 0°C to 70°C
- Backward compatible with QSFP and QSFP28 ports
- Optional LED indicator

Target Markets & Applications

- High density and data rate I/O in SAN, NAS and Servers
- Switches and routers
- Data center cabling infrastructure
- High density interconnects for networking equipment and high-performance computing

Electrical Characteristics		
Differential Impedance:	100±10	Ohms
Data Rate:	Up to 400	Gbps
Power Supply Voltage:	3.3 ± 5%	V
Power Class:	0, 3.5 and 10	W
Attenuation at DC:	0, 3 and 6	dB
Mechanical Characteristics		
Keyed:	No	
Latch Type:	Pull tab to release	
Environmental Characteristics		
Operating Temperature:	0-70°C	
Storage Temperature:	-20-80°C	

Mechanical Characteristics



- Back Shell Material: Zinc Die Cast, Nickel plated, electrodeposited as per AMS-QQ-N-290 Class 2
- Pull Tab Color: Various color options
- Pull Tab Material: Nylon
- Dimensions according to QSFP-DD MSA

Lorom Part Number	Power Class	Attenuation at DC	Optional LED Light
LRHSP D65 Z000	0W	0dB	No
LRHSP D65 Z003	0W	3dB	No
LRHSP D65 Z006	0W	6dB	No
LRHSP D65 Z010	3.5W	0dB	No
LRHSP D65 Z013	3.5W	3dB	No
LRHSP D65 Z016	3.5W	6dB	No
LRHSP D65 Z020	10W	0dB	No
LRHSP D65 Z023	10W	3dB	No
LRHSP D65 Z026	10W	6dB	No
LRHSP D66 Z000	0W	0dB	Yes
LRHSP D66 Z003	0W	3dB	Yes
LRHSP D66 Z006	0W	6dB	Yes
LRHSP D66 Z010	3.5W	0dB	Yes
LRHSP D66 Z013	3.5W	3dB	Yes
LRHSP D66 Z016	3.5W	6dB	Yes
LRHSP D66 Z020	10W	0dB	Yes
LRHSP D66 Z023	10W	3dB	Yes
LRHSP D66 Z026	10W	6dB	Yes