

56 Gb/s QSFP+ Active Optical Cable Assemblies

Siemon 56 Gb/s Low Power Active Optical Cable assemblies offer a cost-effective, extended reach option for high-speed data center interconnects. These AOC assemblies incorporate integrated opto-electronics with four fiber optic transceivers per end, each operating at data rates from 1 to 14 Gb/s and supporting a reach up to 100 meters. The cable is available in a number of standard lengths up to 100 meters.

AOC's offer customers the flexibility of traditional optical modules by interfacing to systems via a standard QSFP+ MSA, SFF-8436 connector. The cable is electrically compliant with the SFP+ interface supporting InfiniBand, Ethernet, Fiber Channel and other applications. The QSFP+ connector includes the Digital Diagnostic Monitoring Interface (DDMI).

High strength pull tab (60N)

Ultra-flexible multi mode fiber

STANDARDS COMPLIANCE

- Electrical: IBTA V2 Revision 1.3, IEEE 802.3ba
- SFF-8436, SFF-8636
- RoHS-6 (lead free)
- Class 1 laser product per IEC 60825-1
- IEEE 802.3ba



Ethernet and InfiniBand electrical compliance

High-density QSFP+ connector

4-channel full-duplex active optic cable transceiver

APPLICATIONS

- InfiniBand SDR, DDR, QDR
- Ethernet 40G BASE-SR4
- Fiber Channel 16 GFC
- Rack-to-Rack, Shelf-to-Shelf Interconnect
- Proprietary Cluster Interconnect
- Networking
- Storage
- Hubs, switches, routers, servers

Product Information

PERFORMANCE SPECIFICATIONS

Electrical	
Supply Voltage	3.1 to 3.6V
Power Consumption Per End	0.8W typical, 1.2W max
General	
Operating Temperature	0 to 70° C
Storage Temperature	-25 to 75° C
Channels	4 channels, bi-directional
Connector (each end)	QSFP+

Cable	
Type	OFNP (PVC)
Minimum Bend Radius	15xDIA - Dynamic 10xDIA - Static
Minimum Cable Assembly Bend Radius	Cable and Connector: 56mm
Cross Section (without connector)	3mm OD
Channel Parameters	
Channels	4 Lanes, bi-directional
Date Rate	14.025 Gbps/ channel Max.
Operating Optical Wavelength	850nm

Ordering Information:

QSFP+ to QSFP+ Active Optical Cable Assemblies

Part Number	Length
QSFPFDR-F-005	5m
QSFPFDR-F-010	10m
QSFPFDR-F-015	15m
QSFPFDR-F-020	20m
QSFPFDR-F-030	30m
QSFPFDR-F-050	50m
QSFPFDR-F-100	100m

Note: Contact Customer Service for additional lengths.

SS_SIS_QSFP+_56Gbs_REV/E 11/15

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