

Active Optical Cables

100G QSFP28

Regional Availability - Global

Siemon 100G QSFP28 Active Optical Cable (AOC) assemblies offer a highly reliable and cost-effective alternative to transceiver assemblies available in lengths ranging from 0.5 m to 100 m, beyond the range of Direct Attach Copper Cables (DAC). These high performance and low power consumption AOCs are Ethernet, InfiniBand and MSA compliant with a robust construction, including a high-strength pull tab latching system which reduces plug loss and ensure more secure installations.

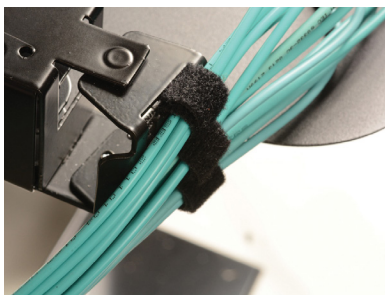
These 100G QSFP28 assemblies are capable of transmitting data up to 100Gb/s, offering an easy installation with a flexible, multimode fiber cable. AOCs eliminate the interoperability issues of transceiver assemblies to achieve proper parameter optimization and are equipped with Digital Diagnostic Monitoring, allowing I²C (Inter-integrated circuit) real-time supervision of operating parameters and transmits warnings if those parameters exceed specification.

Typical AOC applications include point-to-point connections within data centers, high performance computing and storage racks. The versatile connections can be rack-to-rack within the same row or another row, and their hot swappable and high-density design allows bi-directional use within a wide range of top-of-rack and other data center architectures.



Standards Compliance

- QSFP28 MSA
- IEEE P802.3bm
- 100GBASE-SR4
- RoHS/REACH compliant
- CML Compatible Electrical I/O
- TUV/UL certified



Small Diameter Bundles

AOC's thin diameter allow for smaller bundles which promotes better airflow.

Part Number (OFNP)	Part Number (LSZH/OFNR)	Length
Q1Q28F-Y00.5B13	Q1Q28F-V00.5B13	0.5m (1.64 ft.)
Q1Q28F-Y01.0B13	Q1Q28F-V01.0B13	1.0m (3.28 ft.)
Q1Q28F-Y01.5B13	Q1Q28F-V01.5B13	1.5m (4.92 ft.)
Q1Q28F-Y02.0B13	Q1Q28F-V02.0B13	2.0m (6.56 ft.)
Q1Q28F-Y03.0B13	Q1Q28F-V03.0B13	3.0m (9.87 ft.)
Q1Q28F-Y05.0B13	Q1Q28F-V05.0B13	5.0m (16.40 ft.)
Q1Q28F-Y07.0B13	Q1Q28F-V07.0B13	7.0m (22.97 ft.)
Q1Q28F-Y10.0B13	Q1Q28F-V10.0B13	10m (32.80 ft.)
Q1Q28F-Y15.0B13	Q1Q28F-V15.0B13	15m (49.21 ft.)
Q1Q28F-Y20.0B13	Q1Q28F-V20.0B13	20m (65.62 ft.)
Q1Q28F-Y25.0B13	Q1Q28F-V25.0B13	25m (82.02 ft.)
Q1Q28F-Y30.0B13	Q1Q28F-V30.0B13	30m (98.43 ft.)
Q1Q28F-Y40.0B13	Q1Q28F-V40.0B13	40m (131.23 ft.)
Q1Q28F-Y50.0B13	Q1Q28F-V50.0B13	50m (164.04 ft.)
Q1Q28F-X0100B13	Q1Q28F-T0100B13	100m (328.08 ft.)

Product Information

Absolute Maximum Ratings	Min	Max
Module Supply Voltage	0.0V	4.0V
Storage Temperature	-40°C (-40°F)	85°C (185°F)
Relative Humidity - Storage	0%	85%
Relative Humidity - Operating	0%	85%

Mechanical Specifications	
Minimum Bend Radius	20 × OD mm (without tension) 10 × OD mm (with max tension)
Cable Diameter (OD)	3.0mm ± 0.20
Fiber Type	OM3 multimode

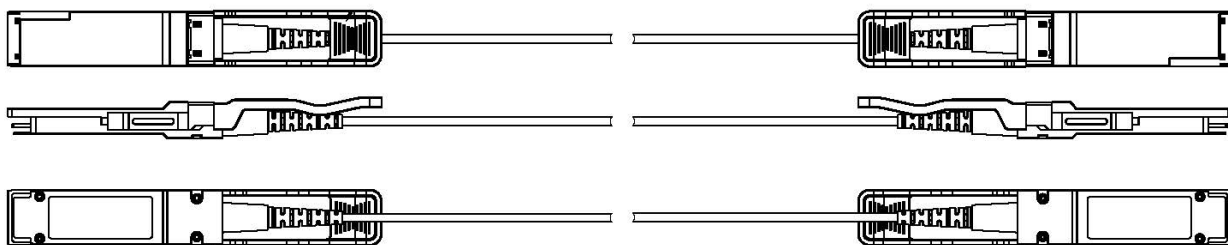
Electrical Specifications	
Module Supply Voltage	3.13V to 3.47V (3.3V typical)
Case Operating Temperature	0°C (32°F) to 70° C (158°F) (25°C (77°F) typical)
Single Module Supply Current	500mA (typical)
Maximum Power Consumption Per End	1.9W
Covered in Channel Parameters	Covered in Channel Parameters

Channel Parameters	
Channels	4 Lanes, bi-directional
Data Rate per Channel	25.78 Gbp/s (max)
Operating Wavelength	850nm

Receiver Electrical Interface	
Rx Data Differential Output Voltage	800mV (max)
Rx Data Differential Output Impedance	90Ω to 110Ω (100Ω typical)

Transmitter Electrical Interface	
Tx Data Differential Input Voltage	200mV to 900mV
Tx Data Differential Input Impedance	100Ω (typical)

Overall Dimensions



Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

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