

**400G QSFP56-DD to 2x 200G QSFP56 Breakout Active Optical Cable.**

This 400G QSFP56-DD to 2x 200G QSFP56 Active Optical Splitter Cable is used in 2 X 200 Gigabit Ethernet links over OM3/OM4/OM5 multimode fiber, which provides connectivity between system units with a 400GbE connector on one side and two separate 200GbE connectors on the other two sides.



The cable connects data signals from each of the 8 MMF (Multi Mode Fiber) pairs on the single QSFP56-DD end to the dual pair of each of the QSFP56 multiport ends.

This AOC is compliant with the QSFP-DD-MSA and with 200GBASE-SR4 specification. Digital diagnostics functions are available via the I2C interface as specified by CMIS V4.0. The transceiver is RoHS 2.0 compliant and lead-free per Directive 2011/65/EU.



**Features**

- High-density QSFP-DD and 2x QSFP56 MSA-compliant connectors
- 8 channels full-duplex active optical cables
- 8x 850nm VCSEL array and PIN photo-detector array
- Compliant with IEEE 802.3cd 200GBASE-SR4
- Data rate up to 425Gbps
- Length up to 70m (OM3) or 100m (OM4) over MMF
- Power consumption < 9W (400G QSFP56-DD), < 5W (200G QSFP56)
- Operating case temperature range from 0°C to 70°C
- 3.3V power supply voltage
- RoHS compliant (lead free)

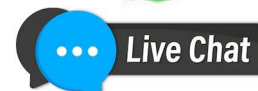
**Applications**

- 400G to 2x 200G Ethernet

**Contact Us:**

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# AOC-400GQ56DD-2Q56 | 400G QSFP56-DD to 2x 200G QSFP56 AOC Datasheet



## Connection Diagram



SPECIFICATIONS	
Connector A	400G QSFP56-DD
Connector B	2x 200G QSFP56
Max Data Rate	425Gbps
Max Length	100m (328ft)
Cable Type	OM3 MMF
Wavelength	850nm
Minimum Bend Radius	30mm
Transmitter Type	VSCSEL
Receiver Type	PD
Power Consumption	≤11W
Jacket Material	LSZH
CDR (Clock and Data Recovery)	TX & RX Built-in CDR
Modulation Format	8x 50G-PAM4 to Dual 4x 50G-PAM4
Temperature	0 to 70°C (32 to 158°F)
Protocols	IEEE 802.3cd, IEEE 802.3bs, QSFP-DD MSA, SFF-8024, SFF-8679, SFF-8665, CMIS 4.0, OIF-CEI-04.0

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