AOC Cable - QSFP-DD 400G

Variants

5M 1M 100M 30M 3M

Details

400G QSFP-DD to QSFP-DD Active Optical Cable (AOC)- OM3/OM4

The **400G QSFP-DD Active Optical Cable (AOC)** is a high-speed and low-latency optical interconnect solution designed for **data centers, cloud computing, AI networks, HPC environments, and enterprise backbone connectivity**.

This cable supports **400Gbps data transmission** over **OM4 multimode fiber** with integrated optical transceivers on both ends. It delivers stable PAM4 high-speed communication with low power consumption and excellent signal integrity.

Key Features

Supports 400Gbps ultra-high-speed transmission
QSFP-DD to QSFP-DD Active Optical Cable
OM4 multimode fiber optic cable
850nm VCSEL transmitter technology
Built-in TX & RX CDR for signal stability
PAM4 modulation format
Low power consumption design

Supports DDM/DOM monitoring
Suitable for AI, cloud, HPC, and data center networks

Technical Specifications

Parameter	Specification
Form Factor	QSFP-DD to QSFP-DD
Maximum Data Rate	400Gbps
Cable Length	1M to 30M
Cable Type	OM3/OM4 Multimode Fiber
Wavelength	850nm
Minimum Bend Radius	30mm
Transmitter Type	VCSEL
Receiver Type	850nm PIN
Maximum Power Consumption	8W Per End
Jacket Material	OFNP
CDR	TX & RX Built-in CDR
Modulation Format	PAM4
DDM / DOM	Supported
Operating Temperature	0°C to 70°C (32°F to 158°F)

Applications

400G Data Center Interconnect
AI & GPU Networking Infrastructure
Cloud Computing Networks
High Performance Computing (HPC)
Enterprise Backbone Connectivity
High-Speed Storage Networks

Note: Use proper cable management and maintain minimum bend radius during installation to ensure stable 400G optical transmission performance.

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