AOC Cable - QSFP28 100G

Variants

30M 5M 3M 1M 100M

Details

100G QSFP28 Active Optical Cable (AOC) – OM3 / OM4

The **100G QSFP28 Active Optical Cable (AOC)** is a high-speed optical interconnect solution designed for **data centers, AI infrastructure, cloud computing, enterprise networking, telecom networks, and high-performance computing (HPC)**.

This cable integrates optical transceivers and multimode fiber into a single assembly, delivering **stable 100Gbps transmission, low latency, lightweight cabling, and reduced power consumption** for short-distance high-speed connectivity applications.

Key Features

Supports 100Gbps ultra-high-speed transmission
QSFP28 to QSFP28 Active Optical Cable
Supports OM3 / OM4 multimode fiber
850nm VCSEL optical transmission technology
Low latency and low power consumption
Built-in TX & RX CDR for signal stability
Supports DDM / DOM digital diagnostics

Flexible and lightweight cable structure
Hot-pluggable QSFP28 interface
Suitable for switches, routers, servers, AI clusters, and storage systems

Technical Specifications

Parameter	Specification
Product Type	100G QSFP28 Active Optical Cable (AOC)
Form Factor	QSFP28 to QSFP28
Maximum Data Rate	100Gbps
Data Rate Per Lane	25Gbps × 4 Channels
Cable Length	1M to 100M
Cable Type	OM3 / OM4 Multimode Fiber
Wavelength	850nm
Transmitter Type	VCSEL Laser
Receiver Type	PIN Photodiode
Modulation Format	NRZ
CDR	TX & RX Built-in CDR
DDM / DOM	Supported
Maximum Power Consumption	< 3.5W Per End
Operating Temperature	0°C to 70°C

Parameter	Specification
Compliance	QSFP28 MSA, IEEE 802.3bm, RoHS

Applications

100G Ethernet Networks
Data Center Interconnect
Cloud Computing Infrastructure
AI & GPU Networking
High Performance Computing (HPC)
Enterprise Backbone Networks
Storage Area Networks (SAN)
Switch-to-Switch and Server Connectivity

Note: Maintain proper cable routing and minimum bend radius during installation to ensure stable 100G optical transmission performance and long operational lifespan.

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