

# AOC Cable - QSFP56 200G

---

## Variants

30M 100M 5M 3M 1M

## Details

## 200G QSFP56 Active Optical Cable (AOC) – OM3 / OM4

The **200G QSFP56 Active Optical Cable (AOC)** is a high-speed optical interconnect solution designed for **AI infrastructure, cloud computing, hyperscale data centers, enterprise networking, telecom backbone, and HPC environments.**

This cable integrates optical transceivers and multimode fiber into a single assembly, delivering **stable 200Gbps high-speed transmission, low latency, excellent signal integrity, and reduced power consumption** for short-distance optical connectivity applications.

## Key Features

Supports 200Gbps ultra-high-speed transmission
QSFP56 to QSFP56 Active Optical Cable
Supports OM3 / OM4 multimode fiber optic cable
850nm VCSEL optical transmission technology
PAM4 modulation format for high-speed communication
Built-in TX & RX CDR for stable signal performance
Low latency and low power consumption design

Supports DDM / DOM digital diagnostics monitoring

Flexible and lightweight optical cable structure

Suitable for switches, routers, servers, AI clusters, and storage systems

## Technical Specifications

Parameter	Specification
<b>Product Type</b>	200G QSFP56 Active Optical Cable (AOC)
<b>Form Factor</b>	QSFP56 to QSFP56
<b>Maximum Data Rate</b>	200Gbps
<b>Data Rate Per Lane</b>	50Gbps × 4 Channels
<b>Cable Length</b>	1M to 100M
<b>Cable Type</b>	OM3 / OM4 Multimode Fiber
<b>Wavelength</b>	850nm
<b>Transmitter Type</b>	VCSEL Laser
<b>Receiver Type</b>	850nm PIN
<b>Modulation Format</b>	PAM4
<b>CDR</b>	TX & RX Built-in CDR
<b>DDM / DOM</b>	Supported
<b>Maximum Power Consumption</b>	< 5W Per End
<b>Minimum Bend Radius</b>	30mm

Parameter	Specification
<b>Jacket Material</b>	OFNP / LSZH
<b>Operating Temperature</b>	0°C to 70°C
<b>Compliance</b>	QSFP56 MSA, IEEE 802.3cd, RoHS

## Applications

200G Ethernet Networks
AI & GPU Cluster Networking
Cloud Computing Infrastructure
Hyperscale Data Centers
High Performance Computing (HPC)
Enterprise Backbone Connectivity
High-Speed Storage Networks
Switch-to-Switch and Server Connectivity

**Note:** Maintain proper cable routing and minimum bend radius during installation to ensure stable 200G optical transmission performance and long cable lifespan.