# AOC Cable - QSFP56 200G

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### Variants

100M 30M 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

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| 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 |

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

| Parameter | Specification |
|---|---|
| **Jacket Material** | OFNP / LSZH |
| **Operating Temperature** | 0°C to 70°C |
| **Compliance** | QSFP56 MSA, IEEE 802.3cd, RoHS |

## Applications

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| 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.

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