

AOC Cable - QSFP+ 40G

Variants

5M 100M 30M 3M 1M

Details

40G QSFP+ Active Optical Cable (AOC) – OM3 / OM4

The **40G QSFP+ Active Optical Cable (AOC)** is a high-speed optical interconnect solution designed for **data centers, enterprise networking, telecom infrastructure, cloud computing, and high-performance computing (HPC)** environments.

This cable integrates optical transceivers and multimode fiber into a single assembly, providing **stable 40Gbps transmission, low latency, lightweight cabling, and reduced power consumption** for short-distance optical connectivity applications. [oai_citation:0±amphenol-cs.com](https://www.amphenol-cs.com/product-series/40g-qsfp-plus-active-optical-cables.html?utm_source=chatgpt.com)

Key Features

Supports 40Gbps high-speed optical transmission
QSFP+ to QSFP+ Active Optical Cable
Supports OM3 / OM4 multimode fiber
850nm VCSEL optical transmission technology
Low power consumption and low latency
Hot-pluggable QSFP+ interface

Supports DDM / DOM digital diagnostics
Flexible and lightweight cable structure
Suitable for switches, routers, servers, and storage systems

Technical Specifications

Parameter	Specification
Product Type	40G QSFP+ Active Optical Cable (AOC)
Form Factor	QSFP+ to QSFP+
Maximum Data Rate	40Gbps
Data Rate Per Lane	Up to 10.3Gbps Per Channel
Cable Length	1M to 100M
Cable Type	OM3 / OM4 Multimode Fiber
Wavelength	850nm
Transmitter Type	VCSEL Laser
Receiver Type	PIN Photodiode
DDM / DOM	Supported
Power Consumption	Low Power Design (<1.5W Typical)
Power Supply	Single 3.3V
Operating Temperature	0°C to 70°C
Compliance	QSFP+ MSA, SFF-8436, IEEE 802.3ba, RoHS

Applications

40G Ethernet Networks
Data Center Interconnect
Cloud Computing Infrastructure
High Performance Computing (HPC)
Enterprise Backbone Networks
Storage Area Networks (SAN)
Switch-to-Switch and Server Connectivity

Note: Proper cable routing and maintaining the minimum bend radius are recommended to ensure stable 40G optical transmission performance and long cable lifespan.