

Optical Active Device 200G OEM



Article Overview

200G Active Optical Cables (AOCs) are high-speed, OEM-compatible solutions for data center interconnects, supporting PAM4 50G per lane and lengths up to 100 meters.

Overview

200G Active Optical Devices, commonly in QSFP56 form factor, are designed for high-speed Ethernet or InfiniBand applications. These devices use PAM4 modulation to achieve 50G per lane, aggregating to 200G total bandwidth, making them ideal for low-latency, low-power, and high-density data center environments (Siemon). They are available in straight-through and breakout configurations, including 1:2 and 1:4 options, allowing flexible connectivity between switches, servers, and network adapters.

OEM Compatibility

Many 200G AOCs are OEM-compatible with major brands such as Mellanox, NVIDIA, and generic data center switches, ensuring plug-and-play functionality without vendor lock-in (Approved Networks). Tier 1 components are often used, and some vendors provide limited lifetime warranties and free evaluation units to verify compatibility before deployment.

Technical Features

- Form Factors: QSFP56, SFP-DD, QSFP-DD (depending on vendor)
- Cable Lengths: Standard lengths up to 100 meters, with custom lengths available...

Article Content

Nov 18, 2025

200G Active Optical Cables (AOC) in Data Center

Explore the applications and advantages of 200G Active Optical Cables (AOC) in data centers. Discover how AOC outperforms DAC,

Sep 23, 2025

Spec Sheet

200G PAM4 QSFP56 Straight Throughs and Breakouts Regional Availability — Global Siemon's 50G per lane PAM4 Ethernet or

Jun 28, 2026

200G QSFP DD Active Optical Cable (AOC)

Amphenol QSFP DD to QSFP DD 200G Active Optical Cable assemblies increase the number of lanes from 4 to 8

Mar 31, 2026

200G QSFP-DD Active Optical Cable

The 200G QSFP-DD active optical cable assemblies adopt 8 channels full-duplex transceiver modules and support 8×25.78125Gbps

Oct 27, 2025

200G Active Optical Cables (AOCs) - Vitex Direct LLC

High-bandwidth 200G active optical cable for short-reach, high-density data center links. Delivers low-latency, low-EMI connectivity

Feb 18, 2026

OPTCORE for Mellanox MFS1S00-Vxxx E Compatible 200G QSFP56

200G QSFP56 active optical cable replacement compatible with Mellanox 200G Ethernet Switches, Servers, and other networking

Apr 09, 2026

Customized 200G QSFP56 Active Optical Cable

The 200G QSFP56 active optical cable is designed for use in 200 Gigabit Ethernet links over OM3 multimode fibre, it contains four

Dec 05, 2025

Shop for 200 GB QSFP56 InfiniBand HDR and Breakout Active Optical ...

200G QSFP56 InfiniBand HDR Active Optical Cable (AOC) for Mellanox 100% OEM Compatible, 200Gbase InfiniBand HDR,

Jun 07, 2026

MACOM to Showcase 200G per Lane Products at Optical Fiber

These demonstrations feature advancements in 200G per lane technology, along with new product additions to its portfolio of optical,

Dec 08, 2025

200G Direct Attach Cables & Active Optical Cables

BlueOptics 200G AOC and DAC cables offer a powerful and reliable solution for your network requirements. With their high

Dec 18, 2025

Active Optical Cables_AOC_SFP QSFP QSFP-DD | USource 17 yea-Optical ...

USource is leading manufacturer OEM ODM Carrier-Grade of high speed Active Optical Cables in SFP QSFP QSFP-DD form facto,

Nov 30, 2025

200G Optical Module Market Report: Size, Growth, Trends & Forecast ...

200G Optical Module Market size was valued at USD 2.5 Billion in 2023 and is projected to reach USD 5.1 Billion by 2031, growing at

Apr 13, 2026

200G Active Optical Cables – Proficium

Discover Proficium for connectivity at scale with OEM-compatible optical transceivers, dac cables, active copper cables, active

Nov 18, 2025

FEMTO Variable Gain Photoreceivers OE-200

Fast Optical Power Meters OE-200 Adjustable Conversion Gain from 103 to 1011 V/W Equ. Input Noise down to 10 fW/√Hz

Aug 04, 2025

200G QSFP56 Active Optical Cable (AOC) to 35m Reach

An active optical cable assembly with a 200G QSFP56 SR4 Lite optical transceiver module integrated at each end Each side

Sep 11, 2025

Global Optical Active Device Chip Market Size, Growth Analysis,

Optical Active Device Chip Market size was valued at USD 3.21 billion in 2025 & is estimated to reach USD 5.67

Aug 21, 2025

200G QSFP56 Active Optical Cables | AscentOptics

AscentOptics's high quality 200G QSFP56 AOC (active optical cable) solutions provide power-efficient connectivity for data center

Feb 09, 2026

200G QSFP56 AOC -Active Optical Cable

200G AOC cables deliver high density and speed, supporting next-generation Ethernet applications. With a

Dec 29, 2025

Spec Sheet

Siemon's 50G per lane PAM4 Ethernet or InfiniBand™ QSFP56 Active Optical Cable assemblies (AOCs) are designed to exceed

Sep 26, 2025

Optical Active Device Chip Market 2025

Optical Active Device Chip Market size was valued at US\$ 4.67 billion in 2024 and is projected to reach US\$ 8.89 billion by 2032, at

Jul 01, 2026

ams OSRAM is a global leader in innovative light and sensor solutions ...

We offer a distinct product and technology portfolio for sensing, illumination and visualization from high-performance LEDs and lasers

Jun 17, 2026

What Is Active Optical Cable and How 200G AOC Fits In

Can 200G AOC be used beyond 100 m in an Active Optical Cable system? In many cases, 200G AOC is limited to

Dec 18, 2025

200G To 2x100G Active Optical Cable (QSFP-DD To 2xQSFP28)

200G QSFP-DD to 2x100G QSFP28 active optical cable has 8 channel 850nm VCSEL array and PIN photo-detector array. The AOC

May 22, 2026

Product-Optical Transceiver-ACON OPTICS

ACON OPTICS has more than 20 years of design and manufacturing capabilities, expertise in fiber optics interconnect and optical

Mar 05, 2026

200G Optical Transceiver Modules | Broadex Technologies

Broadex Technologies'' high performance and cost effective 200G Optical Transceiver Modules are built utilizing our innovative COB

Jan 24, 2026

200G Active Optical Cables

Tier 1 components, 100% OEM compatible with Mellanox, NVidia, generic, datacenter, MSA, and OnePort programmable, limited

Apr 27, 2026

AOC (Active Optical Cable) : Optical Transceiver Module | NEC

Active Optical Cables (AOC) use optical fibers, allowing for longer distance transmission compared to copper cables and being less

Contact Us

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