Certified Active Optical Device 400G



Overview

BlueOptics 400G AOC and DAC cables offer a powerful and reliable solution for your network requirements.

Key Takeaways

CE Certified 400G Active Optical Devices (AOCs) provide high-speed, reliable 400 Gigabit Ethernet connectivity for data centers and enterprise networks, compliant with international standards. OverviewCE Certified 400G Active Optical Devices (AOCs) are designed to support ultra-high-speed data transmission at 400 Gbps over multimode or single-mode fiber. These devices are widely used in data centers, cloud computing, high-performance computing, and enterprise networks due to their low latency, high reliability, and energy efficiency.

They are typically available in QSFP-DD (Quad Small Form-Factor Pluggable Double Density) or OSFP (Octal Small Form-Factor Pluggable) form factors, ensuring compatibility with modern 400G-capable switches and routers.

Key Features

High Bandwidth: Supports data transfer rates up to 400 Gbps, meeting the demands of modern high-speed networks. Standards Compliance: CE certified and compliant with IEEE 802.3cd, OIF-CEI-04.0, QSFP-DD MSA, and QSFP-DD-CMIS-rev4p0, ensuring interoperability and safety. Fiber Type: Available for OM4 multimode fiber (MMF) or single-mode fiber (SMF), with multiple fibers per cable end to achieve high data rates.

Low Latency and Energy Efficiency: Optimized for minimal signal delay and low power consumption, critical for high-density racks and large-scale deployments.

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Plug-and-

Play Installation: Designed for easy deployment without additional configuration, simplifying network setup. Durability and Reliability: Constructed from high-quality materials to withstand physical stress and maintain stable performance over long-term use.

Applications

Data Centers: High-speed interconnects between racks and across adjacent racks. Enterprise Networks: Core and distribution layer connectivity for 400G Ethernet.

High-

Performance Computing: Low-latency, high-bandwidth links for supercomputers and cloud infrastructure. Telecommunications: Supports ultra-long-haul coherent optics for regional and long-distance DWDM networks.

Vendor Examples

Ytopto Technology: Offers CE-certified 400G AOCs and optical transceivers with strong R&D, proprietary packaging, and compatibility with Cisco, Huawei, H3C, and other major switches. Cisco: Provides 400G QSFP-DD Ultra Long-Haul coherent optics modules and QSFP-DD transceivers for high-performance networking, supporting both short-range and long-haul applications. FS.com: Supplies 3m 400G QSFP-DD AOCs for OM4 multimode fiber, compliant with IEEE and QSFP-DD standards, optimized for cloud and supercomputing environments.

Blue

Optics: Offers premium 400G AOCs and DACs for QSFP-DD and OSFP form factors, emphasizing reliability, energy efficiency, and flexible deployment options. SummaryCE Certified 400G Active Optical Devices are high-performance, standards-compliant solutions for modern networking needs. They combine high bandwidth, low latency, energy efficiency, and robust reliability, making them ideal for data centers, enterprise networks, and high-performance computing.

When selecting a 400G AOC, consider fiber type, cable length, form factor, and vendor support to ensure compatibility and optimal network performance.

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Article Content

3m (10ft) 400G QSFP-DD Active Optical Cable

The 400G QSFP-DD active optical cables are designed for use in 400 Gigabit Ethernet links over OM4 multimode fibres, and contain eight multi-mode fibres (MMF) optic transceivers per end, each

400G Direct Attach Cables & Active Optical Cables

BlueOptics 400G AOC and DAC cables offer a powerful and reliable solution for your network requirements. With their high bandwidth, easy installation, and

A Deep Dive into NADDOD 400G Ethernet Active Optical Cable (AOC)

Discover NADDOD 400G Ethernet AOC cable solutions, including OSFP to QSFP-DD and breakout options, designed for high-density data centers, HPC and AI clusters.

10m (33ft) Arista Networks Compatible 400G QSFP112 Active Optical

This active optical cable is compliant with QSFP112 MSA and IEEE 802.3 ck-400GAUI-4. Thin and lightweight AOC cables simplify cable management, enabling an efficient system airflow, which is

400G QSFP112 Active Optical Cable for 400G Ethernet

400G QSFP112 Active Optical Cable for 400G Ethernet applications. Multichannel AOCs combining our vertically integrated VCSEL array technology with standard

400G QSFP-DD Digital Coherent Optics transceiver

By plugging Coherent''s high transmit output power 400G QSFP-DD-DCO transceivers directly into their switches or routers, network operators can remove

400G Optics

Qualified for use across Juniper''s 400GbE-capable ACX, MX, PTX, and QFX product families, Juniper offers a broad portfolio of 400G coherent and direct-detect optical transceivers to address the

QSFP-DD 3 Meter AOC 400G Active Optical Cable

The 3-meter QSFP-DD 400G Active Optical Cable (AOC) from BlueOptics is specifically designed for modern IT infrastructures where high data rates, low latency, and reliable connections are critical.

Cisco 400G QSFP-DD High-Power (Bright) Optical

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module''s small size and low power make it an optimal choice for a wide range of

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400G QSFP-DD Active Optical Cable (AOC)

400G QSFP-DD Active Optical Cable (AOC) is 100% compatible with switches and routers made by most major OEMs like Adtran, Agema, Alcatel, Allied Telesis,

Spec Sheet

400G PAM4 OSFP Straight Throughs and Breakouts Regional Availability — Global Siemon''s 50G per lane PAM4 Ethernet or InfiniBandTM OSFP Active Optical Cable assemblies (AOCs) are designed to

400G QSFP-DD Active Optical Cable with DDM (1-100m)

400G QSFP-DD Active Optical Cable 1m. Supports 400GbE and InfiniBand HDR up to 425 Gbps. OM3 MMF, DDM monitoring. MSA compatible.

Understanding the OSFP 400G DR4 Optical

Discover the OSFP 400G DR4 Optical Transceiver Module, a high-performance solution with a 1310nm wavelength, supporting 500m distance and

Active Optical Cables | Lightwave Online

400G QSFP112 AOC Fast Photonics 400G QSFP112 Active Optical Cables (AOC) are designed for 400 Gigabit Ethernet links on up to 30m of multi mode fiber. It integrates four data lanes in each ...

Complete Guide to 400G QSFP-DD Transceivers

Today, we are proud to deliver a large selection of 25G SFP28, 40G QSFP+, 100G QSFP28 and 400G QSFP-DD optical transceivers and cables. Optech has a large portfolio of

Understanding the Latest in 400g Transceiver

Explore our complete guide to 400G transceiver technology, including QSFP-DD modules and cables designed for data centers. Discover

400G Transceivers: The Future of High-Speed Networking

Explore the key features and applications of 400G transceivers. Learn how these optical modules enhance data center performance and discover if they are the right choice for your network.

Molex unveils 100G, 400G optical transceivers

As part of a broader upgrade of its interconnect portfolio, Molex has introduced new 100G and 400G optical transceivers. The optical modules are part of the company''s efforts to develop and ...

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