

Ethiopia Active Optical Cable 40G



AI Overview

40G Active Optical Cables (AOCs) provide high-speed, low-power, and long-reach connectivity for data centers and enterprise networks, supporting 40GbE over distances up to 100 meters. Overview 40G AOCs are high-performance fiber optic interconnects that integrate optical transceivers and fiber cables into a single unit, enabling reliable 40Gbps data transmission. They are commonly used for rack-to-rack or intra-rack connections in data centers, high-performance computing, and enterprise networks. Unlike Direct Attach Copper (DAC) cables, AOCs use optical signals, which allow longer transmission distances, lower signal attenuation, and reduced electromagnetic interference. Key Specifications Form Factor: QSFP+ (Quad Small Form-Factor Pluggable) compliant with QSFP MSA and IEEE 802.3ba 40GBASE-SR4 standards. Data Rate: 40Gbps aggregated, typically using 4 lanes of 10Gbps each. Distance: Up to 100 meters on OM3 multimode fiber; longer distances possible with OM4/OM5 fibers. Power Consumption: Low, generally less than 1.5W per cable. Compatibility: Cisco-compatible models are available, hot-pluggable, and tested for interoperability with IEEE-compliant 40GBASE ports. Breakout Options: QSFP+ to 4x SFP+ or QSFP+ to 8x LC connectors allow integration with 10GbE switches or adapters. Advantages High-Speed Transmission: Supports 40GbE Ethernet, Fiber Channel, and PCIe interconnects. Low EMI and Signal Loss: Optical transmission reduces interference and maintains stable performance over longer distances. Flexible Deployment: Available in standard lengths (1m, 5m, 100m) and custom lengths on request. Cost-Effective Breakout: QSFP+ to SFP+ or LC breakout cables allow connecting multiple 10GbE devices from a single 40G port. Applications in Ethiopia Organizations in Ethiopia deploying high-density data centers, enterprise networks, or HPC clusters can leverage 40G AOCs for: Rack-to-rack interconnects in server rooms High-speed uplinks between switches Aggregation of multiple 10GbE d...

Article Content

40Gbps QSFP+ Active Optical Cable QSFP+-AOC

40Gbps QSFP+ Active Optical Cable QSFP+-AOC Features Full duplex 4 channel 850nm parallel active optical cable Transmission data rate up to 10.3Gbit/s per channel

QSFP+ 40-Gbps Active Optical Cable (AOC) Cisco QSFP+-40G

QSFP+ 40Gbps Active Optical Cable (AOC) - Cisco QSFP-H40G-AOCxM Compatible Connect 40Gbps Cisco Switches, Routers and Servers, as well as other MSA Compliant Equipment in Ethernet

40G-AOC-QSFP-1

40G QSFP+ Active Optical Cable 1m. Supports 40GbE and QDR InfiniBand up to 41.2 Gbps. OM3 MMF, DDM monitoring. MSA compatible.

Ethiopia Active Optical Cable Market (2025-2031) | Companies

Historical Data and Forecast of Ethiopia Active Optical Cable Market Revenues & Volume By Personal computing for the Period 2021-2031 Historical Data and Forecast of Ethiopia Active Optical Cable

40G QSFP+ Active Optical Cable,20 Meters

40G QSFP+ Active Optical Cable 20m is an assembly of 4 full-duplex lanes, where each lane is capable of providing an aggregated rate of 45.2Gb/s - AscentOptics.

Wholesale 40G AOC Cable | 40Gbps Active Optical Cable

40G Active Optical Cable (AOC) is designed for short-range, high-speed interconnects in modern data centers. Supporting 40Gbps transmission, it

QSFP+ 40G 10m AOC Cable

Buy QSFP+ 40G active optical cable (10m) for short-distance data center connectivity. Supports 40G/10G speeds, OM3 fiber, and works with Cisco,

Active Optical Cable Introduction

In the application of 40G short-distance network transmission, compared with 40G optical module, 40G AOC active optical cable has no insertion loss and return

H3C LSWM1QSTK3 40G QSFP+ to 4x10G SFP+ DAC

QSFPTEK for H3C LSWM1QSTK3 Compatible 1m QSFP+ to SFP+ 40G QSFP Breakout Cable over passive Twinax copper cable is a cost-efficient

40G QSFP+ Active Optical Cable

Sourcelight QSFP active optic cables are a high performance, low power consumption, long reach interconnect solution supporting 40G Ethernet, fiber

40G QSFP+ AOC-Products-OptiWorks

40G QSFP+ AOC Description The OptiWorks 40G QSFP+ Active Optical Cable (AOC) is a 4-channel parallel active optical cable (AOC) for storage, data center,

Ethiopia Active Optical Cable Market (2025-2031) | Companies

6Wresearch actively monitors the Ethiopia Active Optical Cable Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook.

40G Active Optical Cable (AOC) Solution

40G active optical cable (AOC) is a cabling technology used for deploying 40G Ethernet network, which uses electrical-to-optical conversion on

40G QSFP+ Active Optical Cable

These optical cables are suitable for short-distance QSFP+ to QSFP+ data transmission and are a flexible way to connect switches within racks and across adjacent racks. Active optical cables are

40Gb/s QSFP+ Active Optical Cables

DESIGNED FOR USE IN 40 GIGABIT ETHERNET APPLICATIONS. COMPLIANT WITH THE QSFP MSA AND IEEE 802.3BA Amphenol provides a

40G QSFP+ AOC Active Optical Cable

The 40G AOC transmits 4 x 10G data in parallel over a multimode fiber. The cable is able to transmit up to 100m. It is ideal product for data center applications.

40G QSFP+ AOC wholesale,Active Optical Cable suppliers -ETU-Link

It is an integrated high-speed cable assembly with fixed QSFP+ connectors on both ends, incorporating embedded optical transceivers and multimode fiber optics. Designed for short-reach data center

Spec Sheet

QSFP+ 40G Siemon 40G QSFP+ Active Optical Cable (AOC) assemblies offer a highly reliable and cost-effective alternative to transceiver assemblies available in lengths ranging from 0.5M to 100M, beyond

40Gbps QSFP+ Active Optical Cable QSFP+-AOC

Description QSFP active optic cables are a high performance, low power consumption, long reach interconnect solution rting 40G Ethernet, fiber channel and PCIe. It is c mpliant with 40GBASE-SR4.

40G QSFP+ AOC – Optcore

Upgrade your network switches with various 40G QSFP+ AOC. Guarantee compatibility with Cisco, Arista, HPE and more. Save 80%, Fast shipping & 5-year warranty.

QSFP+ (40G) Active Optical Cable (AOC) -Generic

QSFP+ active optic cables are a high performance, low power consumption, long reach interconnect solution supporting 40G Ethernet, fiber channel and PCIe. It

40G/56G QSFP+ AOC

40G/56G QSFP+ AOC 40G/56G QSFP+ AOC The QSFP+ AOC - Active Optical Cable is a high performance integrated cable for short-range multi-lane data

40Gbps QSFP+ ACTIVE OPTICAL CABLE

Find Compatible Short codes in datasheet at Order Information area.

Ethiopia Active Optical Cables Market (2025-2031) | Trends, Outlook ...

6Wresearch actively monitors the Ethiopia Active Optical Cables Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and

40G QSFP+ Active Optical Cables | AscentOptics

40G QSFP+ AOC (Active Optical Cable) cables are compliant with 40G QSFP+ MSA, they are designed to support 40G Ethernet and InfiniBand SDR/DDR/QDR. The 40G QSFP+ AOC integrated 4x10Gb/s

40G Active Optical Cables-EDOM Technology

Features: Hot Pluggable QSFP+ cable end with multimode fiber Operating data rate: 10.3125 Gb/s (typ.) per channel 850nm VCSEL/PIN Photodiode Low power dissipation: <1.3W (max.) per end Operating

Contact Us

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