

Cambodia RoHS compliant active optical device QSFP28



Overview

The active optical cables have a standard SFF-8665 compliant QSFP28 port on the electrical side towards the host system.

Key Takeaways

RoHS-compliant QSFP28 active optical cables (AOCs) are available in Cambodia, supporting 100Gbps data rates for high-speed networking applications.

Overview of QSFP28 AOCs

QSFP28 active optical cables are high-speed interconnect solutions that integrate optical transceivers at both ends to provide photoelectric conversion and optical transmission. They support 100Gbps data rates over multimode fiber (OM3/OM4) or single-mode fiber, with typical reach ranging from up to 100 meters for multimode and several kilometers for single-mode variants . These cables are hot-pluggable, enabling easy installation and replacement in data center environments .

RoHS Compliance

RoHS (Restriction of Hazardous Substances) compliance ensures that the device is free from harmful materials such as lead, mercury, and cadmium. Certain QSFP28 transceivers, such as Accelink RTX420-431 100G QSFP28 CWDM4 modules, are explicitly RoHS compliant, making them suitable for environmentally regulated deployments . While most modern QSFP28 AOCs from reputable vendors adhere to RoHS standards, it is recommended to verify compliance in the product datasheet before procurement.

Technical Features

- Standards Compliance: SFF-8636, IEEE802.3bm, QSFP MSA, CWDM4 MSA .
- Fiber Type: Multimode (OM3/OM4) for short-range, single-mode for longer distances .
- Data Lanes: Four lanes per direction, each supporting up to 25–26Gbps .
- Power Consumption: Typically low, around 2–3W per module, improving airflow and reducing cooling requirements .
- Features: Programmable input equalizers, output pre-emphasis, selectable retiming, and 2-wire serial interface for monitoring and management .

Availability in Cambodia

Vendors such as C-FLINK provide QSFP28 AOCs in Cambodia, including models like QSFP28-4SFP28-AOC-100G, which support 100Gbps links up to 100 meters over OM3/OM4 fiber and are compatible with hot-swap electrical interfaces . These products are suitable for data center interconnects, high-performance computing, and metropolitan area networks.

Recommendation

When selecting a QSFP28 AOC in Cambodia:

- Verify RoHS compliance in the datasheet or vendor certification.
- Choose fiber type and reach according to your network topology (OM3/OM4 for short-range, single-mode for long-range).
- Check power consumption and thermal characteristics to ensure compatibility with your data center environment.
- Confirm vendor support and warranty for installation and replacement in Cambodia.

By following these guidelines, you can deploy RoHS-compliant QSFP28 active optical devices that meet both environmental and high-speed networking requirements .

Article Content

100Gb/s QSFP28 EDR Active Optical Cable

The active optical cables have a standard SFF-8665 compliant QSFP28 port on the electrical side towards the host system. It

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

This transceiver is compliant with IEEE 802.3bm 100GBASE-SR4 and CAUI-4 standard. Digital diagnostics functions are also

100Gbps QSFP28 Active Optical Cable

100GBASE-SR4 xxx = from 001 to 100 (Cable length in meter. Management Interface SFF-8636 compliant Different lengths may be

Product Datasheet 100G QSFP28 Active Optical Cable

Features Four-channel full-duplex active optical cable 25.78Gb/s data rate per channel SFF-8636 compliant I2C management Single

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

Features and benefits Hot-swappable input/output device that plugs into a 100G Gigabit Ethernet QSFP28 port Interoperable with

100G QSFP28 to QSFP28 Active Optical Cable (AOC)

All GBICS products are CE Marked and RoHS compliant to meet the European safety directives and have passed certification for

Spec Sheet

Regional Availability - Global Siemon 100G QSFP28 Active Optical Cable (AOC) assemblies offer a highly reliable and cost-effective

Spec Sheet

Active Optical Cables QSFP28 100G Breakout Siemon 100G QSFP28 to 4x SFP28 Breakout Active Optical Cable (AOC) assemblies

Intel® 100G QSFP28 Active Optical Cable

- Various cable lengths available up to 100 m
- Compact QSFP28 form factor for high faceplate density in networking equipment
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10G SFP+ Active Optical Cable Datasheet | FS

This product is a high data rate parallel active optical cable (AOC), to overcome the bandwidth limitation of traditional copper cable.

100G QSFP28 Active Optical Cable Datasheet | FS

The product is designed with form factor, optical/electrical connection according to the QSFP Multi-Source Agreement (MSA). It has

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

