40G Active Optical Module Imported from South Korea



Overview

Advanced Optical Modules Market in South Korea | Report The South Korean advanced optical modules market sits at the intersection of the country's dominant.

Key Takeaways

40G Active Optical Modules (AOCs) from South Korea are high-speed optical transceivers designed for 40 Gigabit Ethernet connectivity, supporting data center, enterprise, and high-performance computing applications.

Overview

A 40G Active Optical Module (AOC) is a pluggable optical transceiver that converts electrical signals into optical signals and vice versa, enabling high-speed data transmission over fiber optic cables. These modules are widely used in data centers, enterprise networks, and AI computing clusters to provide reliable, low-latency, and high-bandwidth connectivity.

AO

Cs are particularly suitable for short- to medium-range connections, typically ranging from 1 meter up to 30 meters, depending on the cable and module type. Types and SpecificationsQSFP+ 40G Modules: Common packaging for 40G transceivers, including SR4, LR4, BIDI, CSR4, PIR4, LX4, IR4, PLR4, and ER4 variants. Connector Types: LC or MTP/MPO connectors for single-mode or multi-mode fiber.

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Reach: Modules support distances from 150 meters to 80 kilometers, depending on the type and fiber used. Operating Temperature: Commercial range 0–70°C (32–158°F),. Applications: 40G Ethernet, breakout to 10GBASE-SR, Optical Transport Network (OTU3), high-density switching, and routing.

Advantages of Active Optical ModulesHigh-Speed Transmission: Supports 40Gbps data rates with low latency. Energy Efficiency: Lower power consumption compared to equivalent copper solutions. Flexibility: Compatible with major OEM hardware and supports breakout configurations (e.g., 40G to 4x10G),.

Reliability: Tested for performance and interoperability with professional switches and networking equipment. Import Context from South KoreaSouth Korea is a major exporter of optical modules, including 40G AOCs, under HS Code 8517. Import data shows that these modules are shipped globally for integration into data centers and enterprise networks.

South Korean manufacturers are known for high-quality, MSA-compliant optical transceivers, ensuring compatibility with international standards and OEM devices.

Related Components

Direct Attach Copper (DAC) Cables: Suitable for short-distance connections (

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40G QSFP+ Transceiver Modules | Optical Transceivers

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for high-density switching, routing and data center applications.

Optical Transceiver Module, Optical Module Suppliers from South

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40G Optical Transceivers and Cables Portfolio | FS

The series of product adopts LC or MTP/MPO connector and operates over Single Mode or Multimode optical fiber. They can be used for connections from 150m up to 40km and are suitable for 40G

Arista Optics Modules and Cables

Arista''s Optical Modules and Cable portfolio offer a wide variety of high-density and low-power 800G (dual 400G), 400G, 200G, 100G, 50G, 40G, 25G, 10G, 1G, and 100M Ethernet connectivity options

South Korea Active Optical Module Market Size, Localization

Import/Export Dependence: South Korea relies heavily on imports for raw materials like optical fibers, lasers, and electronic components, with over 60% of modules assembled domestically.

40Gb/s QSFP+ Active Optical Cables

Amphenol provides a series of 40G QSFP+optical module products, including SR4, eSR4, IR4, LR4, ER4 lite, AOC and AOC breakout series.

Cisco 40GBASE QSFP Modules Data Sheet

This module can be used for native 40G optical links over 12-fiber ribbon cables with MPO/MTP connectors or in 4x10G mode with parallel-to-duplex fiber breakout cables for connectivity

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South Korea 400G QSFP DD Optical Module Market Overview: Key

The South Korea 400G QSFP DD optical module market is experiencing robust growth driven by the escalating demand for high-speed data transmission and next-generation networking

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South Korea Module-Level Testing

Import dependence is expected to ease slightly, from 55–65% to 50–60% by value, as local assembly and calibration capabilities improve and Korean manufacturers capture more of the mid

Optical Network Equipment Market in South Korea | Report

South Korea remains structurally import-dependent for advanced optical components and modules, with domestic production concentrated on system integration, final assembly, and high

Optical Module Imports in World

Analyze 171,172 Optical Module import shipments till Aug-24. Import data includes Buyers, Suppliers, Pricing, Qty & Contact Phone/Email.

Optical Modules Market Size, Growth Trends & Forecast

The Asia-Pacific region currently dominates the Optical Modules Market, primarily due to China, South Korea, and Japan''s aggressive investments in 5G infrastructure, data center

Photovoltaic Cutting Machine Market in South Korea | Report

Photovoltaic cutting machines are capital-intensive equipment used to slice silicon ingots into wafers, scribe and cleave cells, and trim modules during the manufacturing process. In South

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