

Founder Technology 800g Optical Module



Article Overview

The Founder Technology 800G Optical Module is a high-speed, high-density transceiver designed for next-generation data centers, supporting ultra-fast 800Gbps transmission with low power consumption and broad compatibility.

Overview

The 800G optical module represents the latest advancement in high-speed data transmission, capable of processing 8 billion bits per second, effectively doubling the capacity of 400G modules and enabling high-density interconnects in modern data centers and AI/HPC environments . These modules are designed to work with 51.2T switch chips and are compatible with major network vendors' 800G switches, ensuring seamless integration into hyperscale and enterprise networks .

Key Features

- **High Bandwidth and Speed:** Supports 800Gbps throughput using 8x100G PAM4 channels or 4x200G channels, depending on the module type .
- **Low Power Consumption:** Advanced designs, such as Linear Pluggable Optics (LPO), reduce power usage to around 8.5W, approximately 50% lower than traditional DSP-based 800G modules, minimizing thermal load and cooling requirements .
- **Reduced Latency:** LPO modules eliminate DSP chips, improving latency performance, which is critical for AI/ML workloads and high-performance computing .
- **Transmission Distance:** Single-mode 800G DR8 modules can reach up to 500 meters over single-mode fiber, suitable for intra-data center interconnects .

Article Content

800G Optical Transceiver Modules | Broadex Technologies

800G optical transceivers are a new generation of high-speed optical transceivers. With a transmission rate as high as 800Gbps,

Founder Technology 800g Optical Module

In this article, we will provide an overview of the various types of 800G optical modules, discuss their applications, and address some

800G 2×DR4 OSFP Transceiver Module

Lumentum's 800G 2×DR4 OSFP transceiver provides high-speed, energy-efficient optical connectivity for AI and cloud data centers.

800G OSFP 2xFR4 2km Silicon Photonics

Description The Gigalight GOS-SI8012FR4C is a transceiver module designed for 2km optical communication applications, and it is

Exploring 800G Optical Transceiver Technologies and Applications

Discover the latest trends and applications of 800G optical transceivers, from short-reach to long-haul scenarios, and learn about

Founder Technology 800g Optical Module

Gelonghui, May 8th: Founder Technology (600601.SH) stated on the investor interaction platform that its PCB products are applied in

800G Client Optics in the Data Center

Developments in three distinct areas are needed for 800G deployment: optical modules and direct attach copper (DAC) cables,

FS 800G& 400G Transceiver Acceptance Testing Guide | FS

In building a high-performance InfiniBand network, OSFP-800G-SR8 and OSFP-SR4-400G-FL InfiniBand optical modules serve as

Unlocking 800G: A Guide to Next-Generation Optical Transceivers

The industry has responded with a diverse portfolio of 800G optical transceivers, designed to meet varying requirements for reach,

Contact Us

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