Huawei Intelligent Computing Center Short-Range Optical Module

Overview

At MWC 2025, Huawei introduced the StarryLink Series optical modules – a breakthrough solution designed to keep data flowing effortlessly into the future. As AI technology advances, the need to collate and process scattered parameters has become increasingly critical. In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long transmission), Stable (ultra-high reliability), and Secure (ultra-solid security). With AI models processing unprecedented volumes of parameters, the need for highly reliable. With the surge in AI development, AI training clusters have evolved to a scale of 10,000+ GPUs, resulting in a significant increase in the number of optical modules required.

Article Content

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Huawei Unveils StarryLink Optical Modules That Deliver

Stable: Huawei''s short-distance optical return loss positioning technology enables fault detection on optical links in minutes, significantly faster

The Intelligent Micro Module, the Element of Intelligent

The Intelligent Micro Module can provide simultaneous, efficient operations in order to provide the best green data center, the best asset management, and optimum

Unlocking High-Speed Connectivity: The Ultimate Guide

A short-range 10G optical transceiver enables fast, reliable data transfer up to 300m using multimode fiber, ideal for data centers and enterprise

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models providing flexible plug-and-play solutions tailored to diverse interface

Gently down the (bit)stream

Unveiled at MWC Barcelona 2025, Huawei''s StarryLink optical modules leverage advanced technologies for efficiency. Huawei''s specialized

Huawei Data Center Switch Optical Transceiver Portfolio

Description 100GBase-SWDM4 Optical Transceiver,QSFP+,100GE,Multi-mode Module(850,0.075km-OM3,0.1km-OM4,LC) 100GBase-CWDM4 Optical Transceiver,QSFP28,100G,Single-mode ...

Huawei Unveils StarryLink Optical Modules That ...

At MWC Barcelona 2025, Huawei introduced the StarryLink optical modules, aimed at creating a network experience with "3S" quality (Spanning, Stable, Secure). This launch took place

Huawei''s Data Center All-Optical Switch Wins the Special Prize at ...

At Interop Tokyo 2025, the largest ICT exhibition in Japan, Huawei''s DC-OXC Photon-Electronics Integration DCN in the AI Era (Data center all-optical switch - Huawei OptiXtrans DC808)

Enabling Intelligent DCI O& M

In short, the optical-layer neurons detect all status parameters of the optical-layer network, with the hardware providing enhanced computing power, and the control layer optimizing algorithms, resulting

Computing-Optical Synergy

What Is Computing-Optical Synergy? The all-optical premium transmission network is the top choice for computing power bearing, supporting 10 Gbps intelligent access capabilities. It enables efficient

Application and Deployment of Optical Modules in Intelligent Computing ...

As a core component connecting servers, switches, and storage systems, optical modules play a pivotal role in unlocking the performance of intelligent computing centers.

Huawei Unveils StarryLink Optical Modules for Ultimate Network ...

Looking ahead, Huawei plans to partner with industry stakeholders to foster research and innovation in optical modules for data center networks. The aim is to drive intelligent network upgrades and

StarryLink Optical Module

Huawei''s StarryLink optical modules for data center networks offer seamless interconnection from GE to 800GE across all scenarios, delivering customers an ultra-reliable, long-distance, and highly secure

What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra-long-distance transmission, exceptional reliability, and enhanced security,

Optical Modules in Intelligent Computing Scenarios

In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long transmission), Stable (ultra-high reliability), and Secure (ultra-solid

Striding Towards the Intelligent World White Paper 2024: Data

In intelligent computing cloud services, computing power is crucial, while the computing network serves as the backbone. For example, China Mobile is constructing a "4+N+31+X" multi

Huawei Unveils StarryLink Optical Modules That Deliver

These modules ensure ultra-long distance transmission, ultra-high reliability, and ultra-robust security, delivering an ultimate network performance

All-Optical Network

The optical sensing technology can also be used in a wide range of scenarios such as fire and earthquake warning to explore new services and applications and maximize the value of fiber

The Application of Optical Modules in High-Performance

Optical modules deliver high bandwidth, low latency, and scalable connectivity for high-performance computing, enabling efficient data center

Development trend of optical

AI-driven Intelligent Computing Leads the Innovation of Optical Module/Chip The update cycle for IMDD optical modules in data centers is approximately 3 to 4 years; however, following the introduction of

StarryLink Optical Module

The short-distance optical return loss positioning technology enables precise and efficient identification of contaminated or loose optical modules, achieving minute-level fault locating.

Data Center Optical

In short, high-bandwidth, low-latency, and high-reliability networks are now required for Data Center Interconnect (DCI). Turn to Huawei''s Data Center Optical Interconnection solution to efficiently

Striding Towards the Intelligent World White Paper 2024: All-Optical ...

To implement integrated computing power construction, operator in Hunan has built an all-optical premium network for intelligence, Based on the full-mesh network architecture and the layout of

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