

Huawei Demo Manual ECOC 2026

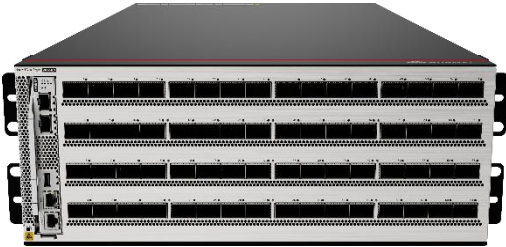
Huawei's solution in the 2026 Ethernet Alliance interoperability demonstration: CloudEngine 9875-64EO intelligent computing switch, and pluggable optical modules (OSFP 800G-DR8, OSFP 800G-2xDR4, OSFP 800G-2xFR4).

Overview

Huawei fosters multi-vendor interoperability across network hardware, software, controllers, and cloud platforms by leveraging open interfaces, open-source communities, international standards bodies, and open laboratory testing and verification.

Huawei actively engages with major global standards organizations, including the IETF, IEEE, OIF, ITU, and multiple MSAs, to advance industry standards and has made substantial contributions to numerous standardization initiatives. Specifically, Huawei has played a pivotal role in defining key open standards for high-speed Ethernet, high-speed electrical interfaces, optical module packaging, and linear optical modules, thereby facilitating seamless multi-vendor interoperability.

CloudEngine 9875-64EO Intelligent Computing Switch

Product Appearance	Description
 CloudEngine 9875-64EO	• The PacificX650 series forwarding engine provides a forwarding capacity of 51.2 Tbps. • Standard open architecture, easy platform integration • High-density access, flexible networking: supports 64 high-performance OSFP800 interfaces at 800GE. The 800GE OSFP800 interfaces support one-to-two splitting (2*400GE) and one-to-four splitting (4*200GE). • Supports the NSLB per-flow load balancing algorithm and the NPLB per-packet load balancing algorithm. Compared to traditional ECMP (Equal-Cost Multi-Path) routing solutions, these algorithms can improve network throughput efficiency, thereby enhancing the computing efficiency of AI clusters. • Supports the iFlashboot flash boot technology. During business operations, if issues such as device abnormalities arise and a

Product Appearance	Description
	restart is required, the technology employs an independent restart mechanism for the forwarding plane and control plane. This enables a rapid restart within 5 seconds, ensuring uninterrupted business operations for big data, high-performance storage, AI training, and inference.

Pluggable Optical Module

Huawei provides high-quality, market-leading pluggable optical modules such as QSFP-DD, QSFP112, and OSFP. These modules enable network coverage ranging from access to ultra-long distances.

To address the industry's issues of uneven quality and high failure rates of optical modules, Huawei has provided a systematic solution through innovative high-integration design.

- In terms of reliability, Huawei's SR series adopts an optical DSP integrated with driver. Leveraging this high level of integration, the chip's heat generation is reduced by approximately 5°C. This is further complemented by Huawei's five-tier quality protection system for optical modules, which reduces the FIT failure rate to 2‰. This is only half of the industry's average level (4‰). In field usage scenarios, the product return rate is even lower than 1‰, significantly outperforming the industry average.
- In terms of transmission capability, limited VCSEL bandwidth and increasingly constrained transmission reach have remained persistent pain points for VCSEL-based SR optics. For example, the 400G generation can reach 100 meters, while the 800G generation has shrunk to only 50 meters. Huawei, with its exclusive optical path coupling algorithm, significantly improves the transmission distance of VCSEL, achieving twice the reach as defined in industry standard. This enables the 800G and beyond generations to be designed without driver. Combined with Huawei's VCSEL, Huawei SR series optical module further solidifies its advantage in long-distance transmission at high bandwidths.

Overall, Huawei has achieved a balance between lower failure rates, longer transmission distances, and higher bandwidths through the combination of "highly integrated design + five-tier quality protection + Huawei-developed optical path algorithms and chips." This approach has set a benchmark for the reliability and performance of optical modules in the industry.

More Information

For more information about Huawei switches, visit <https://e.huawei.com/en/> or contact Huawei's local sales office.

Alternatively, you can contact us through one of the following methods:

Global service hotline: <http://e.huawei.com/en/service-hotline>

Enterprise technical support website: <http://support.huawei.com/enterprise>

Service mailbox for enterprise users: support_e@huawei.com