

Philippine manufacturer QSFP-DD optical module 800G

Article Overview

Currently, there is no publicly documented Philippine manufacturer of 800G QSFP-DD optical modules; the market is dominated by global suppliers such as Cisco, Arista, Finisar, and Infinera.

Overview of 800G QSFP-DD Optical Modules

The QSFP-DD (Quad Small Form-Factor Pluggable Double Density) modules are designed for ultra-high-speed data transmission, supporting 800G Ethernet and coherent optical links. These modules are widely used in data centers, cloud networks, and telecom infrastructure. They comply with QSFP-DD MSA standards and support CMIS4.0, with architectures such as 4x100Gx2 and 8x100G for short- and long-distance transmission, including silicon-based and EML designs for optimized performance .

Global Market and Key Players

The 800G QSFP-DD market is experiencing rapid growth, projected to reach \$4.8 billion by 2025 with a CAGR of 22.1%, driven by hyperscale data centers, cloud computing, AI/ML workloads, and 5G network expansion . Major global manufacturers include:

- o Cisco Systems - Offers QSFP-DD and OSFP 800G ZR/ZR+ coherent optics for distances up to 120 km (800ZR) and beyond 1000 km (800G ZR+), compliant with OIF and OpenROADM standards .
- o Arista Networks, Finisar, Infinera - Leading suppliers of high-speed optical transceivers for data center and telecom applications .
- o Fujitsu and Sumitomo Electric Industries - Collaborating on 800G QSFP-DD modules for hyperscale deployments .
- o Lumentum Holdings - Developed the first 800G QSFP-DD transceiver using PAM4 signaling for data centers .

Technical Features

- o Form Factor: QSFP-DD, mechanically compliant with MSA standards.
- o Transmission: Supports 800G Ethernet, DWDM, and short- to long-reach coherent links.
- o Connector: Duplex LC interface for optical connections.
- o Applications: Data center interconnects, cloud networks, metro/regional service provider links.
- o Standards Compliance: IEEE 802.3ck, QSFP-DD 800 MSA, CMIS4.0 .

Philippine Manufacturing Context

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As of now, there is no publicly available information confirming a Philippine-based manufacturer of 800G QSFP-DD optical modules. Companies in the Philippines may act as distributors, integrators, or resellers of global products rather than producing these high-speed optical modules locally. Organizations seeking 800G QSFP-DD modules in the Philippines typically source from international suppliers or regional distributors.

Recommendations

- o For procurement in the Philippines, consider contacting authorized distributors of Cisco, Arista, or Finisar.
- o Monitor local tech and semiconductor industry developments, as the high-speed optical module market may expand regionally in the coming years.
- o Evaluate module specifications carefully for distance, power efficiency, and interoperability with existing network infrastructure.

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

FiberMall LQSFP-DD-800G-DR8D is a large-capacity optical module with high efficiency, and low power

QSFP-DD (Quad Small Form Factor Pluggable - Double Density) is a widely adopted form factor that supports up to 8 lanes of

Product overview The FS® 800GBASE Quad Small Form-Factor Pluggable (QSFP-DD) portfolio offers

The 800G QSFP-DD (Quad Small Form-factor Pluggable Double Density) optical module is a compact, hot-pluggable

Description The Gigalight GQD-SI801XDR8C is a transceiver module designed for 2km optical communication applications, and it is

Generic Compatible DR8 QSFP-DD 800G transceiver module supports a max

Complete guide to 800G QSFP-DD modules: specifications, types, QSFP-DD vs OSFP comparison, and selection

Discover everything about 800G optical modules--standards, packaging, types & applications. Learn how they power

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SULITON 800G OSFP/QSFP-DD Module SULITON provides OEM and ODM of various optical modules from 10 100 1000basex sfp

Arista OSFP-800G-2FR4 Compatible 2x 400GBASE FR4 Twin-port OSFP IHS/Closed Finned Top PAM4 1270 to 1330nm 2km DDM

QSFP-DD is currently the preferred package for 800G optical modules, enabling data centers to efficiently grow and

Nowadays, 400G optical modules are widely used, but 800G optical module technology has also been slowly used in

The GIGALIGHT 800G QSFP-DD pluggable optical transceiver modules support 800G Ethernet and InfiniBand NDR data rates. This

Cisco QSFP-DD and OSFP 800G coherent optical modules are

Philisun supplies optical transceiver modules from 100M to 800G, covering SFP, SFP+, SFP28, QSFP+,

Web: <https://morwarreconst.co.za>

