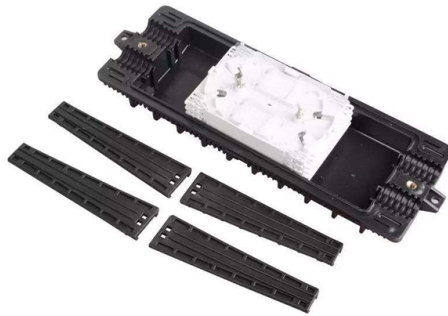


Uzbekistan QSFP-DD optical module PAM4



Article Overview

Currently, there is no publicly documented manufacturer of QSFP-DD PAM4 optical modules based in Uzbekistan.

QSFP-DD (Quad Small Form Factor Pluggable – Double Density) modules are high-speed optical transceivers designed for data center and networking applications, supporting 400G and beyond using PAM4 modulation to double data throughput without increasing the baud rate. These modules typically feature 8 electrical lanes, backward compatibility with QSFP28/QSFP56, and support multiple form factors such as SR8, DR4, FR4, LR4, and LR8 for short, medium, and long-distance fiber links. PAM4 (4-level Pulse Amplitude Modulation) allows two bits per symbol, enabling high-speed transmission over single-mode or multimode fiber. Globally, QSFP-DD PAM4 modules are produced by companies such as Jabil, Cisco, and QSFPTEK, which offer modules compliant with IEEE 802.3bs, 100G Lambda MSA, and OIF 56G PAM4 standards. These modules are widely used in data centers, cloud networks, and high-performance computing environments, with optical reaches ranging from 70 meters (SR8) to 10 km (LR4). For Uzbekistan, while there is no known domestic manufacturer, potential options include:

- Importing from global suppliers like QSFPTEK, Cisco, or Jabil, which provide tested, high-reliability modules compatible with multi-vendor switches.
- Partnering with regional distributors in Central Asia who can supply QSFP-DD PAM4 modules and provide technical support.
- Exploring local electronics or telecom companies for potential assembly or OEM o...

Article Content

400GBASE-XDR4 QSFP-DD 1310nm 2km Transceiver Datasheet | FS

The 400GBASE-XDR4 Module supports link lengths of up to 2km parallel SMF with MTP/MPO-12 connector. It is compliant to IEEE

400Gbps QSFP-DD Optical Module

When this type of optical module is used to interconnect with WDM equipment, the protection switching time of WDM client-side 1+1

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

Cisco offers a comprehensive range of pluggable optical modules in the Cisco® pluggables portfolio. The wide variety of modules

QSFP-DD 400GBASE-FR PAM4 1310nm 2km

The 4x 100G QSFP-DD FR1 optical transceiver that provides 4 parallel 100GE links over 4 single mode fiber (SMF) pairs via its MPO

Cisco 400G QSFP-DD Cable and Transceiver Modules

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. QDD-400-CuxM cables are suitable for very short links and offer a

Contact Us

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