Nepal ONU Optical Network Unit QSFP

Overview

Nepal - Shop for Best Online at Daraz .np Wide Variety of optical network unit. Great Prices, Even Better Service.

Key Takeaways

QSFP modules in Nepal, including 100G and 40G variants, are available for high-speed optical networking through suppliers like D-TECH and Ubuy, supporting data centers, ISPs, and enterprise networks.Overview of QSFP Modules

A QSFP (Quad Small Form-factor Pluggable) module is a compact, hot-pluggable optical transceiver used for high-speed data communication. It enables data transmission over optical fibers at rates up to 40 Gbps or 100 Gbps, depending on the module type, and is commonly used to connect switches, routers, and servers in data centers or enterprise networks . QSFP modules can support both multimode and single-mode fibers, with variants designed for short-range (SR), long-range (LR), or bi-directional (BiDi) applications .

Types and Specifications Available in Nepal
• 100G QSFP28 SR4 (Short Range)
• Wavelength: 850nm

• Distance: Up to 100 meters over multimode fiber

• Interface: MTP/MPO connector

• Data Rate: 4 x 25Gbps lanes, aggregate 103.1Gbps

• Applications: Data centers, enterprise networks, storage networks, HPC environments

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• 100G QSFP28 BiDi LR1 (Long Range)
• Wavelength: Single fiber, simplex LC connector

• Distance: Up to 10–20 km over single-mode fiber

• Lane signaling: 53.125GBd with PAM4

• Features: Digital diagnostic monitoring, KP4 FEC support, 3.3V power supply

• Applications: ISP backbone, long-distance fiber connectivity, DCI links

• 40G QSFP (1 x 40GBase-AOC)
• Uses Active Optical Cable (AOC) technology integrating transceivers and fiber

• Distance: Typically 1 meter (custom lengths available)

• Applications: High-capacity data center interconnects, rack-to-rack connections, enterprise networks

Suppliers in Nepal
• D-TECH Trading: Offers a wide range of QSFP modules including 100G SR4, BiDi, and LR1 variants, with ready stock and technical support for ISPs, data centers, and hydropower projects .

• Eman Communications: Provides QSFP28 modules with detailed specifications for both short-range and long-range applications .

• Ubuy Nepal: Supplies 40G QSFP modules suitable for data centers and high-performance computing environments .
Key Considerations
• Compatibility: Ensure the QSFP module matches the host device (switch/router) and fiber type (single-mode or multimode).

• Distance and Wavelength: Choose SR, LR, or BiDi modules based on required link distance.

• Power and Diagnostics: Modules typically operate on 3.3V and may include digital diagnostic monitoring for real-time performance tracking.

• Connector Type: MTP/MPO for parallel fibers or LC for simplex connections. QSFP modules in Nepal provide high-speed, reliable optical connectivity for backbone networks, data center interconnects, and enterprise applications, with multiple suppliers offering both short-range and long-range options to meet diverse networking needs .

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Article Content

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Designed with high-quality optical fiber, the module offers durability and reliability, making it a trusted choice for long-term use in

D-TECH – Nepal''s Trusted Supplier for SFP & QSFP

In Nepal''s growing fiber optic and data center industry, choosing the right optical transceiver

SFP 400Gbs QSFP-DD SR8 840nm in nepal | D-TECH

Hot-pluggable QSFP-DD form factor Case temperature range of 0°C to +70°C

QSFP Module

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Face Plate ONU XPON HSGQ-855 in Nepal,

Face Plate ONU XPON HSGQ-855 is an Optical Network Unit designed for use in fiber-optic communication networks, particularly

What is an Optical Network Unit: Understanding Principles

An Optical Network Unit, as a key node in a passive optical network, is responsible for the "last mile" of fiber optic

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ONU

The ONU series products provide various interfaces, such as DSL, LAN, POTS, and Wi-Fi, to meet FTTO, FTTB/C, and FTTM

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Comprehensive Guide to QSFP – MapYourTech

The Quad Small Form-Factor Pluggable (QSFP) family represents a critical evolution in high-speed optical transceiver

Understanding ONU: The Optical Network Unit Explained

In the world of fiber optic communications, ONU (Optical Network Unit) plays a crucial role in connecting users to the

Unveiling the Wonders of ONU: Features, Benefits,

In the dynamic landscape of modern telecommunications, the Optical Network Unit (ONU)

WIFI-6 XPON ONU 4GE+AX3000+1FXS (IPG606)

ONU: Optical Network Unit. This is a device used in a passive optical network to terminate the fiber optic

50GPON ONU QSFP28 Optical Transceiver Module Supplier | Superxon

Superxon 50G ONU transceivers, compliant with QSFP28 MSA, support single-fiber bi-directional data links with asymmetric TX and

The Ultimate Guide to Cisco QSFP Optical Transceiver Modules

What is the Role of Cisco QSFP-4X10G-LR-S in Modern Networks? Overview of the QSFP-4X10G-LR-S Module

ONU (Optical network unit)

In summary, an Optical Network Unit (ONU) is a vital component of fiber-optic communication networks. It serves as

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A Quick Guide to ONU (Optical Network Unit)

Discover the magic of ONU technology in our article. Uncover its types, key features, and importance. Elevate your

QSFP Module

Looking for QSFP Modules for Data Networking? Check out Ubuy Nepal''s range of 40GBase-AOC QSFP with 40 Gbps Ethernet

HSGQ-X410DW ONU

The X410DW XPON WiFi ONU is a high-performance optical network unit designed for FTTH broadband access. It supports GPON /

Defining ONU: Optical Network Unit

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Cisco 100GBase-SR BiDi QSFP Module

Upgrade your network infrastructure with the Cisco QSFP Module, designed for high-performance data networking and optical

40G QSFP+ Module Manufacturer & Factories in Nepal

Led by national initiatives to expand cross-Himalayan optical fiber backbones and upgrade metro rings in Kathmandu, Lalitpur, and

Huawei Hg8546M

The EchoLife HG8546M, an optical network terminal (ONT), is a high-end home gateway in Huawei FTTH solution. By using the

SFP 100G SR4 850nm 100Mtr QSFP28+ in nepal

An optical fiber ribbon cable with an MTP/MPO connector can be plugged into the QSFP28 module. The cable usually cannot be

400G QSFP-DD SR8

QDD-MM85QG-SR8C is a QSFP-DD Optical transceiver for 8 x 26.56GBaud optical links. It is compliant with the QSFP-DD MSA

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Cisco 100GBase-SR BiDi QSFP Module

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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