

RIVO MULTITRADE OPTICAL SYSTEMS

High-speed optical fiber connection in Bangladesh 100G



Overview

Core switches, data center uplinks, and enterprise backbone connections demand reliable high-speed optical connectivity.

Key Takeaways

Bangladesh offers 100Gbps-capable optical fiber solutions through providers like Fiber@Home and hardware such as Huawei 100G QSFP28 modules. Service Providers and Network Infrastructure

Fiber@Home is a leading provider of nationwide optical layer transmission services in Bangladesh, offering 10Gbps, 100Gbps, and 400Gbps transmission capabilities via its DWDM network. Their services include high-capacity leased lines, MPLS-based IP/Ethernet solutions, and colocation options for ANS operators, ensuring low latency, high resiliency, and scalable network topologies suitable for point-to-point, point-to-multipoint, or multipoint-to-multipoint configurations. Fiber@Home also deploys GPON-based FTTH networks in Dhaka Metro, providing robust high-speed broadband for enterprise and residential applications. Fiber Optic Network Solutions Bangladesh Ltd. offers FTTH + HSHD (High Speed, High Definition) ready connections, delivering ultra-high-quality voice, data, and video over 100% optical links, ideal for homes and offices requiring high-bandwidth services.

Hardware for 100G Optical Connectivity



For 100Gbps fiber connections, Huawei 100G QSFP28 optical modules are widely used in Bangladesh . Key models include:

- QSFP-100G-SR4: Short-reach, multimode fiber for data centers.
- QSFP-100G-LR4: Long-reach, single-mode fiber up to 10 km, suitable for campus networks and enterprise uplinks .
- QSFP-100G-ER4: Extended reach for long-haul connections.
- QSFP-100G-CWDM4: Coarse WDM for metro networks. These modules are energy-efficient, highly reliable, and compatible with Huawei and many third-party switches and routers, making them ideal for large-scale deployments in data centers, enterprise backbones, and carrier networks .

Deployment Considerations

- Distance and Fiber Type: Choose multimode for short distances (data centers) and single-mode for long distances (campus or metro networks).
- Network Topology: 100G connections can be deployed in point-to-point, point-to-multipoint, or multipoint-to-multipoint configurations depending on operational needs .
- Scalability: DWDM networks allow multiple 100G channels over a single fiber, supporting future bandwidth growth.
- Reliability: Providers like Fiber@Home ensure minimal latency and high resiliency, critical for enterprise and cloud applications .

Pricing and Availability

Huawei 100G QSFP28 modules are available in Bangladesh through suppliers like Crystal Computers and PCB Store Dhaka, with prices varying by model and transmission distance . Short-reach modules are generally more affordable, while long-reach LR4 or ER4 modules are priced higher due to extended distance capabilities and advanced optics.

Summary

Bangladesh's optical fiber ecosystem supports 100Gbps high-speed connections through a combination of advanced DWDM networks, GPON/FTTX infrastructure, and reliable 100G optical modules. Enterprises, data centers, and ISPs can leverage these solutions for ultra-high-speed, low-latency, and scalable networking, ensuring robust performance for modern digital services.

Article Content

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