

Bangladesh makes bulk purchase of NRZ optical core routers

Article Overview

Bangladesh is advancing its telecommunications infrastructure by procuring NRZ optical core routers to enhance high-speed data transmission and network reliability.

Procurement and Purpose

Bangladesh has initiated tenders for optical fiber and related networking equipment, including high-capacity optical core routers, to strengthen its national internet backbone and support growing data demands . These NRZ (Non-Return-to-Zero) optical routers are designed for high-speed, long-distance data transmission, making them essential for backbone networks that connect major cities and data centers. The bulk purchase is likely aimed at upgrading existing infrastructure, improving redundancy, and supporting the expansion of broadband services across the country. This aligns with the government's broader digital transformation goals, ensuring faster and more reliable internet access for both commercial and public services .

Local Manufacturing and Suppliers

Local companies like Leo ICT Cables PLC manufacture high-performance optical networking units and routers, including NRZ-compatible devices . Leveraging domestic suppliers can reduce import dependency, ensure compliance with BTRC regulations, and facilitate faster deployment and maintenance . These routers are compatible with existing fiber-optic networks and can integrate with both local and international telecom infrastructure.

Regulatory Context

The Bangladesh Telecommunication Regulatory Commission (BTRC) oversees the import and deployment of telecom equipment, requiring prior approval for all radio and optical communication devices . This ensures that the purchased NRZ routers meet national standards and operate efficiently within the allocated frequency bands and network protocols.

Impact on Connectivity

The deployment of NRZ optical core routers will enhance network capacity, reduce latency, and improve reliability for internet service providers and mobile operators. Companies like Summit Group, which operate extensive fiber-optic networks nationwide, will benefit from these upgrades, enabling better service delivery and supporting the country's growing digital economy . This infrastructure expansion is also expected to facilitate industrial growth, remote work, and digital services, contributing to economic development.

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Conclusion

Bangladesh's bulk procurement of NRZ optical core routers represents a strategic investment in high-speed, resilient telecommunications infrastructure. By combining local manufacturing capabilities, regulatory compliance, and integration with existing fiber networks, the country is positioning itself to meet increasing data demands and support its ongoing digital transformation initiatives .

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As data demand increases across the world, there's more pressure to ensure that telecoms infrastructure is able to

Leo ICT Cables PLC (Leo Fiber(TM)) is a leading technology manufacturer in Bangladesh, specializing in Fiber Optic Cables and

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Shell, BP, Aramco and Glencore are among nearly two dozen firms Bangladesh has approved as suppliers of spot

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The telecom regulator has decided to permit the Power Grid Company of Bangladesh (PGCB) and Bangladesh Railway

Recent tariff pressures led the company to branch out to Thailand, Vietnam, Indonesia, Mexico, and the Czech Republic, but the bulk

A NRZ properties (B) RZ properties 2.2 Data carrier medium :-This part consists of an fiber optical cable that

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