

Article Overview

Low-power 10G SFP+ optical modules in Sri Lanka offer energy-efficient, high-speed transmission up to 100km, ideal for data centers and enterprise networks.

Overview and Specifications

In Sri Lanka, low-power 10G optical modules such as the LINK-PP LS-SM5510-A0C (compatible with Huawei SFP-10G-ZR100) provide 10Gbps transmission over single-mode fiber (SMF) with a maximum distance of 100km using a 1550nm wavelength and LC duplex connectors. These modules are SFP+ MSA compliant and support digital diagnostics monitoring (DOM) via a 2-wire serial interface, ensuring real-time performance monitoring and reliability .

Other modules, like standard 10G SFP+ transceivers, support shorter distances (e.g., 10km) but still maintain low power consumption and hot-pluggable design for easy deployment .

Power Efficiency and Advantages

Low-power optical modules are designed to minimize energy consumption, typically using 0.8W to 1.5W, compared to 2.5W-4W for copper-based 10GBASE-T modules . Key benefits include:

- o Lower Heat Output: Reduces thermal stress on network equipment and cooling systems.
- o Greater System Stability: Maintains reliable connections in high-density or high-temperature environments.
- o Long-Term Energy Savings: Reduces electricity and cooling costs, especially in hyperscale or enterprise deployments.
- o Future-Proofing: Supports sustainable, cost-effective network expansion while maintaining high performance .

Applications

These low-power 10G SFP+ modules are suitable for:

- o Data Centers: High-speed interconnects with energy efficiency.
- o 10G Ethernet Networks: Enterprise LAN/WAN connectivity.
- o Fiber Channel Storage Networks: Reliable long-distance data transmission.
- o Service Provider Transport: Long-haul optical links up to 100km .

Availability in Sri Lanka

Sri Lanka Low-Power Optical Module 10G

Modules like the LINK-PP LS-SM5510-A0C and Hikvision HK-SFP+-10G series are available through local distributors and online stores in Colombo, ensuring compliance with international standards and local certification requirements. Retailers such as Networkstore.lk and ColomboCCTV.com provide a range of 10G SFP+ transceivers suitable for both enterprise and telecom applications.

Conclusion

Sri Lanka-certified low-power 10G optical modules provide high-speed, energy-efficient, and reliable solutions for modern network infrastructures. They are ideal for organizations seeking to reduce operational costs, improve system stability, and support long-distance optical communication while maintaining compliance with SFP+ standards.

? Sri Lanka's Digital Transformation & 10G SFP+ Demand As Sri Lanka positions itself as a central hub in the South Asian digital

For convenient multi-mode connections that extend beyond the 100-meter limitation of Ethernet cabling, use the UF-MM-10G for

Shop 10G Single Mode SFP+ LC Module, 10GBase-LR Fiber Transceiver for Cisco SFP-10G-LR, Meraki MA-SFP-10GB-LR, Ubiquiti

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics

10GBase-LR SFP+: 10 Gigabit Ethernet Single Mode SFP+ Module, 10 Gb/s, 1310nm wavelength, Duplex Dual LC,

Understand short-range and long-range 10G optical modules in terms of distance, budget,

Our 10G SFP+ modules are fully compatible with Cisco, Huawei, ZTE, Juniper, and other major brands widely used in the Sri Lankan

The FS® 10GBASE Quad Small Form-Factor Pluggable (SFP+) portfolio offers customers a wide variety of high-density and low

Answer: You can purchase the OPTONE SFP 10G module from Ubuy in Sri Lanka. Ubuy offers a convenient shopping experience

The HiFiber 10G Single Mode SFP+ LC Module is a high-performance 10Gb/s transceiver designed for seamless integration with

Long-range 10G optical modules enable high-speed data over distances up to 80km. Learn about types, specs,

Hikvision HK-SFP+-10G-20-1270 Optical Module in Colombo CCTV

Our R& D team has engineered low-power 10G/25G modules featuring typical power consumption values under 1.0W, drastically

Srilanka - Shop for Best Online at Daraz.lk Wide Variety of sfp module 10g. Great Prices, Even Better Service.

Featuring low power consumption, these fiber modules are ideal for enterprise LAN networks and other

SFP+ optical modules are widely used in 10G Ethernet due to their advantages of compact size, low cost and high

Web: <https://in-au.co.za>

