

800G Passive Optical Network for Thailand Overseas Warehouse



Overview

Supports full 800G bandwidth with 8x100G PAM4 lanes, provides high throughput for demanding workloads. Active copper design ensures stable, low-latency links even over extended cable runs. The customer is a leading IT service provider based in Thailand, offering a comprehensive range of solutions including cloud servers, VPS, web hosting, dedicated servers, domain registration, and data center colocation services to meet diverse business needs. The IT service provider faced three key challenges. The Cisco® OSFP 800G transceiver modules provide 800 Gigabit Ethernet (GE), 2x 400GE, 4x 200GE, and 8x 100GE connectivity options, complying with the Octal Small Form Factor Pluggable (OSFP) MSA for pluggable transceivers. The modules comply with the OSFP MSA configuration with integrated closed-loop OIF released OIF-800ZR-01.0, Implementation Agreement for 800ZR Coherent Interfaces, in October 2024 which defined a single-wavelength 800G coherent line interface and frame format for single-span, amplified, 80-120km, point-to-point, DWDM noise-limited links (e.g., The 400G/800G WDM solution supports smooth evolution from C120 to C120+L120, and provides 25% wider spectrum than the industry average. An AI-Specific Networking: a dedicated Back-End network for AI workloads to isolate them from other data center traffic and ensure low-latency communication.



Article Content

A Thailand IT Service Provider Achieves 800G over 50km with FS

The IT service provider faced three key challenges in building its cross-site optical transmission network. It needed to deliver multiple 100G services over links of up to 50 km while ensuring sufficient

Cisco OSFP 800G Transceiver Modules Data Sheet

Optical signals are carried over eight pairs of parallel lanes, with one wavelength per lane. The optical interface can interoperate with any IEEE-compliant module regardless of the form factor. Forward

Optical networks

Highly compact, optical networking solution for data center interconnect (DCI) to enable power-efficient, high-bandwidth, low-latency and highly secure data

Full Series of 400G 800G Solution

Huawei full series of 400G/800G WDM solution supports QPSK and s16QAM modulation formats and is applicable to ultra-long-haul, regional, and metro networks. The 400G/800G WDM solution supports

Passive Optical Network (PON): The Future of High-Speed

Combining PON with 800G optical transceivers further enhances flexibility, scalability, and network longevity. Conclusion: A passive optical network is a cost-effective, energy-efficient, and future-ready

Thailand Passive Optical Network Market Report With Global Overview

The Thailand Passive Optical Network market was valued at \$75.6 Million in 2022, and is projected to reach \$858.1 Million by 2032 growing at a CAGR of 27.55% from 2023 to 2032.

800G Optical Networks | The Future of High-Capacity Connectivity

800G DWDM technology is the next evolution in high-capacity fiber optic networks, offering lower cost per bit, increased bandwidth capacity, lower latency, spectral efficiency, L-band spectrum utilization

Exploring 800G Optical Transceiver Technologies and

Discover the latest trends and applications of 800G optical transceivers, from short-reach to long-haul scenarios, and learn about advancements in interface

Path to 800G: Technical Challenges & Testing Strategies

400G to 800G: A Jump, Not A Journey Though 400 Gigabit Ethernet (400G) is still working its way into production networks, demand for even higher speeds has arrived. Data centers are already leading

AI Data Center Network Architecture Requirements:

AI Data Center Network Architecture Requirements: 400/800G Optical Transceivers
With the continuous development of AI technology and

A Comprehensive Guide to 800G Optical Transceivers

An in-depth guide to 800G and OSFP transceivers, explaining form factors, core features, key advantages, application scenarios, FAQs, and their

Coherent passive optical network for 5G and beyond transport

Building low-latency and high-capacity optical networks is vital for new high-speed cellular technologies. Coherent wavelength division multiplexing passive optical networks (WDM-PONs) are

Cisco OSFP 800G Transceiver Modules Data Sheet

The OSFP 800G transceiver modules are Cisco's new generation of pluggable transceiver modules based on the OSFP specification. They offer

Commercial Progress and Future Trends of 800G Optical Transceivers

Explore the evolution and commercialization of 800G optical transceivers driven by the digital economy and emerging technologies like VR and IoT.

800G: Understanding Real-World Optical Performance

800G: Real-world performance Modulation format isn't the only factor that limits higher-capacity wavelengths in a typical real-world network.

The Technical Solutions of FS 800G Transceivers

The FS 800G FR4 optical transceiver is engineered to comply with the 800GBASE-FR4 specification, this transceiver boasts a reach of up to 2

A Thailand IT Service Provider Achieves 800G over 50km with FS

A Thailand IT service provider customer achieves 50 km transmission distance and a maximum total bandwidth of 800G, through the FS DCP920 DWDM solution.

Contact Us

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

