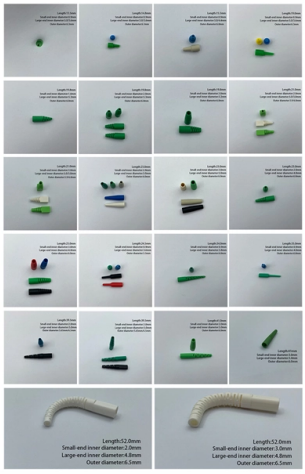
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Cost-effective Fiber Ethernet Switch 200G



Overview

Explore the FS N8510-24CD8D, a future-ready 200G data center switch built for high-density, scalable, and lossless networking.

Key Takeaways

200G fiber Ethernet switches are high-performance data center devices, with prices typically ranging from $15,000 to $50,000 or more depending on model, port density, and features.Overview of 200G Fiber Switches

200G Ethernet switches are designed for high-density, high-bandwidth environments such as data centers, cloud providers, and enterprise core networks. Popular models include:

• NVIDIA SN4600-VS2FC: A 2U 64-port 200GbE spine switch, fully splittable to 128x 10/25/50GbE ports using splitter cables, offering flexible port speeds from 1 to 200GbE .

• FS Data Center Switches: Offer 10/25/40/100/200/400GbE speeds with high performance for large-scale deployments .

• Cisco QSFP56-based switches: Compatible with 200G QSFP56 transceivers and breakout cables, supporting AI/ML, HPC, and enterprise networks .
Optical Modules and Connectivity

200G switches typically use QSFP56 or QSFP-DD optical modules for fiber connectivity:

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• QSFP56 SR4: Supports 200Gb/s over 70 meters of OM3 multimode fiber.

• QSFP56 FR4: Supports 200Gb/s over 2 km using single-mode fiber with CWDM channels . These modules are hot-pluggable and allow breakout to multiple lower-speed ports (e.g., 4x50G) for flexible network design.
Pricing Considerations
• Base switch cost: High-end 200G switches generally start around $15,000 and can exceed $50,000 for fully loaded, high-density models with advanced features.

• Optical modules: QSFP56 transceivers typically range from $1,000 to $3,000 per module, depending on type (SR4, FR4) and distance.

• Cables and breakout options: Passive copper or fiber breakout cables add additional cost, usually $100–$500 per cable depending on length and type.
Recommendation

For exact pricing, it is best to contact vendors directly such as FS, NVIDIA, Cisco, or FiberMall, as prices vary based on configuration, port count, and bulk purchase options . Many vendors also offer custom quotes for enterprise deployments.

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QSFP-200-CuxM The Cisco 200G QSFP-200-CuxM module (Figure 1) primarily enables high-bandwidth 200G links

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NVIDIA MSN4600-VS2FC Spectrum-3 based 200GbE 2U Open Ethernet Switch with Cumulus Linux, 64

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Unmanaged switches provide you with a cost-effective solution while still allowing your fiber and Ethernet

Ethernet Fiber Switch: Comprehensive Guide to Networking Power

Ethernet fiber switches are essential for building high-speed, reliable, and long-distance data networks. In the digital

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Which switch models support 200G ports via QSFP56 or QSFP-DD? Is your cabling infrastructure (MMF vs SMF)

200G Optical Transceivers | High-Speed QSFP56 Modules for Data

Boost network performance with 200G optical transceivers. Designed for data centers, 5G, and cloud infrastructure, our QSFP56

FortiGate-200G 10 x GE RJ45 (Including 1 x MGMT Port, 1 x

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We compare network switches to see which ones deliver the best speeds for your streaming, gaming, or other home

Cisco Small Business 200 Series SLM2048T-NA Smart SG200-50

Cisco Small Business 200 Series SLM2048T-NA Smart SG200-50 Gigabit Switch 48 10/100/1000 Ports, Gigabit Ethernet Smart

UfiSpace Expands its Data Center Switch Portfolio with 200G Switch

The switch supports installation of compatible network operating system, Arrcus ArcOS. The S9301-32DB is equipped with Intel

200G: Where Bandwidth Meets Technological Evolution

For example, the 200G QSFP56 FR4 DML version has a power consumption of 5W, making it more energy-efficient

Arista 200G Transceivers and Cables

What are the benefits of moving to 200G technology Arista''s 200G/port systems allow datacenters and high

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Amazon : Fiber Switches

Discover fiber switches designed for reliable network connectivity. Browse 10G, 2.5G, and gigabit options to expand your bandwidth.

Supermicro SSE-SN3700-VS2RC 100G/200G Ethernet Switch Offers

High-performance Open Networking 200G spine/super-spine switch Supermicro introduces the Spectrum-2 based Open Networking

SCALANCE X-200 Managed Gigabit Switches | Siemens

SCALANCE X-200 offers the right Gigabit switch for every network task - from applications for both individual machines, and entire

The best network switch of 2025 | TechRadar

The best network switch will be a necessity for anyone looking to add more wired connections and gain greater

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Cisco Switch Selector

Looking for a cost-effective, small, fixed aggregation switch? The Cisco Catalyst 4500-X Series offers the size, scalability, and

Cisco 200G QSFP56 Cables and Transceiver Modules Data Sheet

QSFP-200-CuxM cables are suitable for very short links and offer a cost-effective way to establish a 200-Gigabit link

Ethernet Switches

These switches allow the building of cost-effective and scalable switch fabrics, from a few nodes to tens-of-thousands of nodes.

200G QSFP56 SR4 Transceiver – Cost-Effective Data Center

The 200G QSFP56 SR4 optical transceiver is designed as a cost-effective solution for data centers seeking higher bandwidth without

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