

Singapore AI Server QSFP



Article Overview

QSFP-DD and QSFP112 modules are key high-speed transceivers enabling 400G/800G AI server interconnects in Singapore's AI data centers.

QSFP-DD and QSFP112 for AI Servers

QSFP-DD (Quad Small Form-factor Pluggable - Double Density) is a high-speed optical transceiver designed for AI GPU clusters, supporting up to 400Gbps using 8 electrical lanes, each running at 50G or 100G. It doubles the electrical lanes compared to standard QSFP, providing high port density without sacrificing rack space, which is critical for AI workloads where GPU utilization scales linearly with network bandwidth . QSFP-DD supports multiple variants depending on distance and topology, including SR8 (Short Reach), DR8 (Data Center Reach), 2×FR4, and 2×LR4 (Long Range) . QSFP112 is a complementary high-performance transceiver that supports 100G per lane, enabling flexible configurations such as 100G, 200G (2×100G), and 400G (4×100G). It is backward compatible with QSFP-DD ports, allowing AI servers to connect efficiently to 400G network fabrics while reducing power consumption and maintaining low latency . This makes QSFP112 ideal for connecting AI GPUs like NVIDIA H100 or A100 to high-speed network switches.

Deployment in Singapore AI Data Centers

Singapore is a Tier 1 AI and cloud hub in Southeast Asia, with roughly 1GW of operational data center capacity and a vacancy rate of just 1.4%. The city-state faces land scarcity, imported power, and strict green energy requirements, which makes high-density, low-latency networking solutions like QSFP-DD and QSFP112 essential...

Article Content

Mar 05, 2026

Singapore Files New Charges in Nvidia Chip Fraud Case

Singaporean prosecutors filed additional charges including money laundering against a key suspect in an AI server

Nov 28, 2025

Singaporean Police Seize \$42M Bungalow in Nvidia Chip Smuggling

Investigators allege that four individuals deliberately concealed the actual end-user of servers thought to contain

Aug 14, 2025

AI Server and Infrastructure Solutions

ASUS offers AI infrastructure solutions, including AI servers, integrated racks for large-scale computing, and advanced AI software

Nov 11, 2025

50-200 Gbps dedicated servers in Singapore | DataPacket

Dedicated servers in Singapore with unmetered bandwidth, low-latency connectivity, and in-stock availability.

Jun 15, 2026

AI InfiniBand Transceiver Modules and Cables

FS 100G/200/400/800G/1.6T InfiniBand optical transceiver modules and cables solution used for high-bandwidth data transmission

Sep 08, 2025

Singapore Prosecutors Say US Server Fraud Case Involves

Singapore prosecutors charge three men in a \$390 million fraud case involving US servers, potentially linked to Nvidia

Mar 07, 2026

AI TOP QSFP Cable PC Accessory

The AI TOP QSFP cable is a high-speed interface of up to 400G designed for massive data transmission. Engineered for the

Feb 04, 2026

AI Servers with NVIDIA HGX, OAM & PCIe GPU

Explore GIGABYTE AI servers for AI training and inference, supporting NVIDIA HGX, OAM, and PCIe GPU platforms. Compare

Dec 31, 2025

Latest in Singapore's AI scene that businesses should know – a round

Latest in Singapore's AI scene that businesses should know – a round-up from January to March 2026 A S\$1 billion

Oct 15, 2025

National AI Strategy | Smart Nation Singapore

AI for the Public Good, for Singapore and the World Since launching the Singapore National AI Strategy (NAIS) 2.0 in

Apr 08, 2026

FS Singapore

As a worldwide provider of high-performance network products and solutions, FS offers switches, optical transceivers, cabling

Jul 26, 2026

QSFP56 for AI/ML Clusters: 200G GPU Interconnect Guide (2026)

QSFP56 for AI clusters explained. Learn how to design 200G GPU interconnects with InfiniBand HDR or Ethernet,

Apr 30, 2026

Singaporean prosecutors expand charges in AI server fraud case tied

Singapore prosecutors expand fraud charges against four individuals and companies accused of routing Nvidia AI chip

Apr 27, 2026

PowerEdge AI Servers with GPU Acceleration | Dell Singapore

Boost AI, generative AI, and compute-intensive workloads with servers that offer a variety of powerful GPU accelerators.

Nov 07, 2025

Singapore AI Infrastructure Industry Size, Share, Data Center

This blog provides insights on Singapore AI Infrastructure industry size, growth rate, data center expansion, GPU computing

Feb 05, 2026

AI in the Public Service: Here for Good

The AI revolution is an opportunity—and responsibility—for the Public Service to harness technological progress in pursuit of a better

Nov 05, 2025

Computers, Monitors & Technology Solutions | Dell Singapore

Dell provides technology solutions, services & support. Buy Laptops, Touch Screen PCs, Desktops, Servers, Storage, Monitors,

Apr 04, 2026

AI TOP QSFP Cable PC Accessory

High-speed QSFP112 cable for professional AI development. Supports up to 400G bandwidth and ConnectX-7 technology. [Link](#)

Nov 01, 2025

Lenovo AI Servers: Enterprise AI Server Solutions | Lenovo Singapore

Explore Lenovo AI servers engineered for high-performance and scalable AI solutions. Boost your business with our top-tier AI

Jan 19, 2026

AI Server and AI PC Solutions for Every AI Application

Discover GIGABYTE's AI server and PC portfolio, delivering high-density performance and reliability for all AI workloads.

Dec 14, 2025

Singapore seizes multi-million dollar home in Nvidia AI chips probe

Police in Singapore have seized a multi-million dollar luxury home that was allegedly bought using proceeds from smuggling Nvidia

Apr 09, 2026

Singapore QSFP optical module LPO

Introducing our 800G LPO QSFP-DD800, a pinnacle in high-speed connectivity. Infused with Linear-Drive Technology, it transforms

Oct 20, 2025

How 400G QSFP-DD AOC is Driving the Development of AI and High ...

Conclusion As AI and HPC applications continue to drive the need for faster, more efficient computing infrastructure,

Jan 20, 2026

Optimizing AI Networks: Connecting 400G Ports with Backward

Optimizing AI Networks: Connecting 400G Ports with Backward-Compatible QSFP-DD Modules and QSFP112 for AI Servers As AI

Aug 29, 2025

AI Platform Server

AI Platform Processing power, large amounts of data, fast networking, and accelerators all bundle into a scale out ready HPC and/or

Jul 09, 2026

Accelerated AI Clusters | HPC Datacenter | Enterprise Networking

NADDOD is a professional provider of innovative optical networking solutions for AI Data Centers, HPC InfiniBand/Ethernet,

Apr 03, 2026

Platforms Engineering

Platforms Engineering The Platforms Engineering Group supports AI Innovation and other Pillars in AI Singapore and empowers our

Feb 16, 2026

US servers in Singapore fraud case may contain Nvidia chips, minister ...

Servers used in a fraud case that Singapore announced last week were supplied by U.S. firms and may have

Nov 12, 2025

Singapore files new charges in Nvidia chip fraud case

Prosecutors filed money laundering charges against a key suspect in an AI server fraud case, in an effort to clamp down

Dec 17, 2025

Pairing with AI for Public Sector Impact in Singapore

In Singapore, the government has taken an innovative approach in developing a suite of general-purpose AI tools for

Sep 26, 2025

ASUS Presents Comprehensive AI Server Lineup | News ASUS Singapore

SINGAPORE, August 28, 2024 —ASUS today announced its ambitious AI initiative, marking a significant leap into the server

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

