

# Price List for Silicon Photonics Liquid-Cooled Switches for Data Center Interconnection



## Overview

Use this silicon photonics buying guide to compare major types, define selection criteria, and find suppliers: Professional purchasing of high-value photonics products is a substantial responsibility, where a structured decision-making process is essential. RP Photonics offers a lot of help: Get. NVIDIA's co-packaged optics (CPO) switches with integrated silicon photonics are the world's most advanced networking solution for the era of agentic AI. Replacing pluggable transceivers with silicon photonics on the same package as the ASIC, NVIDIA CPO innovations provide 5x better power. The announcement by NVIDIA CEO Jensen Huang at GTC 2025 regarding the introduction of Silicon Photonics (SiPh) based Co-Packaged Optics (CPO) switches, the Spectrum-X and Quantum-X platforms (see Figure 1), has been now some time ago, so it is probably a good moment to make a retrospective of the. NADDOD NVIDIA/Mellanox compatible OSFP-1. 6Tb/s twin-port OSFP optical transceiver, delivering 2x800Gb/s links over single-mode fiber (SMF) within up to 2km. It is designed for next-generation 1. Company CEO Jensen Huang introduced the

switches at Intel's GTC 2025. GIGALIGHT provides the smart box tools for online coding of SFP, XFP, SFP+, QSFP+, and QSFP28 optics, as well as wavelength tuning for 10G tunable XFP/SFP+ optical transceivers. GIGALIGHT provides a series of BER testing tools (checker) for 10G SFP+, 25G/32GFC SFP28, 40G QSFP+, 100G QSFP28, 200G.

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Silicon photonics is gaining significant momentum in North America as technology companies and data-center operators increasingly adopt high-speed, low-power optical connectivity.



At the summit, Ruijie Networks officially launched the 25.6T silicon photonics NPO cold-plate liquid-cooling switch, meeting the requirements of data centers and operators' networks for high ...



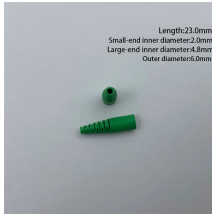
Through the integration of LPO and liquid cooling technology, the overall power consumption of the device is reduced by 25% to 40%, meeting the requirement of  $PUE \leq 1.2$ .



NVIDIA has unveiled a pair of co-packaged silicon photonics networking switches that it says will allow AI facilities to connect millions of GPUs across sites while drastically reducing energy ...



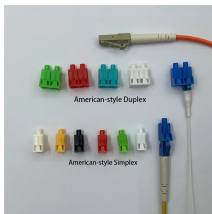
The Spectrum-X Photonics platform provides Ethernet-based switching with configurations of up to 400 Tbps of total bandwidth across 2,048 ports, while the Quantum-X ...



This silicon photonics buying guide provides technical background, comparison of major types, selection criteria, and an overview of suppliers.



Take a look inside NVIDIA silicon photonics-based networking switches that simplify manageability and design, enabling more power for compute infrastructure and delivering the scale needed to enter the ...



GIGALIGHT provides 100G, 200G, and 400G pluggable digital coherent optical transceiver modules (DCO) for data center interconnection (DCI), 5G backhaul, metro telecommunication, and other long ...



The Spectrum-X and Quantum-X switches validate silicon photonics for networking, while chip-to-chip CPO solutions from Lightmatter and Ayar Labs bring optical interconnects closer to the ...



It is designed for next-generation 1.6T data center networks. The 1.6T OSFP 2xFR4 module adopts a dual FR4 architecture (2xFR4), providing 8 optical channels in total, with each port carrying 4x200G ...

## Contact Us

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