

Optical Module of Supernode



Overview

CloudMatrix 384 super-node uses 6912 x 400G OSFP silicon photonic (SiPh) Linear Drive Pluggable Optics (LPO) optical modules and 3168 fibers, connecting 384 Ascend 910C computing chips through a complete mesh interconnection architecture. Deep dive into Huawei's AI super-node: 384 Ascend 910C chips, 6912x400G OSFP SiPh LPO modules (1:18 ratio), 1.2% failures stem from optics & how QSPTEK cuts costs by 69. On May 14, 2025, the "2025 Chip and Optical Forum" hosted by HiSilicon and organized by. To address this, Macom and NVIDIA first proposed Linear-drive Pluggable Optics (LPO) in 2022. Its core concept is to remove digital processing units such as DSPs and CDRs from the module, constructing a purely analog "linear direct-drive" optical link. In the LPO architecture: The transmitter uses. The global AI computing industry has introduced supernode technology to address this issue. Large AI models involve both scale-up and scale-out networks, and AI computing supernode technology aims to integrate hundreds of GPUs/NPUs to form high-density computing units, such as the NVIDIA GB200. Eyeing so-called SuperNodes – singular supercomputing clusters with upwards of a million chips – Huawei is showing off its United Bus mesh (UB-mesh)

technology., May 4, 2026 - GlobalFoundries (Nasdaq: GFS) (GF) today announced the introduction of its SCALE™ optical module solution for co-packaged optics (CPO). At the Apsara Conference 2025, Alibaba Cloud unveiled its new-generation Panjiu AI Infra 2.

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In an AI data center, 800G OSFP optics carry very high aggregate bandwidth across short to moderate distances, often between top-of-rack (ToR), spine, and supernode switches. Most ...



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Easy Maintenance and High Replaceability: The optical engine module is independently packaged. If the optical component fails, the optical engine can be replaced individually without ...



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Huawei's 910C expansion relies on a hybrid optical + electrical interconnect, whereas NVIDIA primarily uses electrical interconnects. As discussed earlier, the closer "1 + 1" can get to "2," ...



Due to the extensive use of optical transceivers in both scale-up and scale-out network, this 384-GPU cluster is very power hungry. We estimate that one CM384 supernode draws close to ...



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Optical interconnection supports multiple types of modules, including CPO, NPO, and LPO modules. The differences between these types of modules are not discussed in this article. ...



But how to make the optical links reliable enough for a SuperNode's needs? Need to increase the resiliency of the optical link itself. Starting with supporting link level retries over ...



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Based on Xizhi Technology's world-first distributed optical switching technology, this supernode utilizes silicon photonics-based optical interconnect and optical switching chips, BiRen Technology's ...



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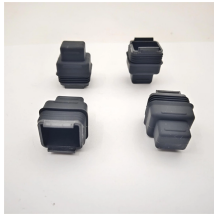
For the optical communications industry, supernode technology means AI computing clusters will usher in a new wave of optical communications technology and market opportunities.



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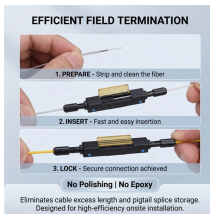
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