CPU optical communication module

Overview

Enabling high-speed data transmission, the OCI chiplet is designed to support 64 channels of 32GBPs data transmission in each direction on up to 100m of fibre optics, potentially helping to address AI infrastructure's growing demands for higher bandwidth, lower power consumption. Enabling high-speed data transmission, the OCI chiplet is designed to support 64 channels of 32GBPs data transmission in each direction on up to 100m of fibre optics, potentially helping to address AI infrastructure's growing demands for higher bandwidth, lower power consumption. Intel Corporation's Integrated Photonics Solutions (IPS) Group has demonstrated the industry's first fully integrated bidirectional optical compute interconnect (OCI) chiplet co-packaged with an Intel CPU and running live data. Intel's OCI chiplet enables co-packaged optical input/output in. At the Optical Fiber Conference (OFC) in San Diego on March 26-28, 2024, Intel demonstrated our advanced Optical Compute Interconnect (OCI) chiplet co-packaged with a prototype of a next-generation Intel CPU running live data, giving the industry a look at the future of high-bandwidth compute. Intel's optical compute interconnect chiplet is expected to revolutionize high-speed data processing for AI infrastructure. Although Intel sold its Silicon Photonics pluggable business to Jabil, the company still has a SiPho team that is showing off its new optical interconnect chiplet.

Article Content

Intel® Shows OCI Optical I/O Chiplet Co-packaged with CPU at

A co-packaged xPU (CPU, GPU, IPU) optical I/O solution can support higher bandwidths with high power efficiency, low latency, and longer reach, which is exactly what AI/ML infrastructure

Intel shows OCI optical I/O chiplet co-packaged with

At OFC2024 in San Diego, Intel demonstrated its advanced Optical Compute Interconnect (OCI) chiplet co-packaged with a prototype of a next

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We refer to this approach as Co-Packaged Optics (CPO) when applied to networking applications and Optical Compute Interconnect (OCI) when applied to compute fabrics

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Intel CPU with Optical Compute Interconnect Chiplet

Intel showed off a pretty cool piece of technology integrating an optical I/O chiplet with a CPU. The first iteration of the design is a fully integrated

Optical Communication Industry Trends 2026: AI, 800G/1.6T Optical ...

Explore optical communication industry trends in 2026, driven by AI infrastructure, 800G and 1.6T optical modules, silicon photonics, and next-generation data center connectivity solutions.

Intel''s OCI-Compatible Chiplet Provides 64 Optical

Intel''s Integrated Photonics Solutions (IPS) Group demonstrated a fully integrated optical compute interconnect (OCI) chiplet co-packaged with an

Intel launches optical compute interconnect chiplet:

The optical compute interconnect (OCI) chiplet can be attached to CPUs and GPUs to enable high bandwidth, low power consumption, and

10 companies in the optical transceiver industry chain 2024

The rapid development of AIGC has promoted the demand for 800G optical modules, and the entire industrial chain involving optical components,

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CPU to CPU Optical Communication First demonstration of CPU-to-CPU communication over co-packaged OCI and fiber CPU1 injects 32Gb/s/lane PRBS31 data, CPU2 receives and detects errors

Intel Demonstrates First Fully Integrated Optical I/O Chiplet

At the Optical Fiber Communication Conference (OFC) 2024, Intel''s Integrated Photonics Solutions (IPS) Group demonstrated the industry''s most

Intel® Shows OCI Optical I/O Chiplet Co-packaged with

Christian Urricariet is Head of Product Marketing for Silicon Photonics at Intel. At the Optical Fiber Conference (OFC) in San Diego on March

Intel Demonstrates Optical I/O Chiplet With an Intel

At this year''s Optical Fiber Communication Conference in San Francisco, the company demonstrated a system utilizing a new optical compute

Intel demonstrates fully integrated optical chiplet at conference

Enabling high-speed data transmission, the OCI chiplet is designed to support 64 channels of 32GBPs data transmission in each direction on up to 100m of fibre optics, potentially helping to address AI

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

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From optical modules to chips -

Huagong Tech, an optical module manufacturer based in central China''s Wuhan, launched the world''s first 12.8-terabit XPO module in March, bundling the capacity of eight 1.6T modules into a

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Intel Unveils First Fully Integrated Optical IO Chiplet for

At the Optical Fiber Communication Conference (OFC) 2024, Intel''s Integrated Photonics Solutions (IPS) Group showcased the industry''s first fully

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Next-generation process technology for disruptive cost structure, size, and integration. Maturity – Our field-proven Intel® Silicon Photonics platform has already shipped more than 8 million PICs with over

Intel Demonstrates First Fully Integrated Optical I/O Chiplet

Intel demonstrates the industry''s first fully integrated optical compute interconnect chiplet co-packaged with an Intel CPU.

Intel Unveils Groundbreaking Optical Compute

Today, Intel introduced the first fully integrated optical compute interconnect (OCI) chiplet co-packaged with an Intel CPU at the Optical Fiber

Economic Watch: From optical modules to chips -

BEIJING, June 7 (Xinhua) -- With the global push for AI computing power unleashing an unprecedented wave of infrastructure buildout, China-made optical modules that shuttle data and the chips that

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Website: https://sphplantsales.co.za
Email: info@sphplantsales.co.za
Phone: +27 64 827 3915
Address: Unit 9, Highveld Technopark, 43 Atlas Road, Johannesburg, 2196, South Africa

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