

Inphi Silicon Photonics Coherence Module



Overview

Appropriately dubbed COLORZ II, the QSFP-DD pluggable optical coherent transceiver targets 400ZR data center interconnect (DCI) and similar applications. NVIDIA has made its most aggressive move yet to secure the future of AI data center connectivity, committing a combined \$4 billion in strategic investments to silicon photonics leaders Lumentum Holdings and Coherent Corp. Announced in early March 2026, the twin deals – each worth \$2 billion in. Inphi Corporation is an American company that produces 10G-800G high-speed analog and mixed-signal semiconductor components and optical subsystems to networking original equipment manufacturers (OEMs), optical module, cloud and telecom service providers. Marvell offers a portfolio of DCI modules designed to efficiently transmit data over regional fiber networks. The transmitter is tunable over the ITU C-Band 75 GHz grid. (NYSE: IPHI) says it has begun to.



Article Content

Silicon Photonic Devices: Key Market Drivers & 2034 Growth

Silicon-based Photonic Devices market expansion is driven by datacom/telecom demand and component miniaturization. Analyze strategic dynamics, growth factors, and competitor

NVIDIA's \$4B Photonics Play: Lumentum vs Coherent

Co-packaged silicon photonics works by integrating photonic components directly onto or adjacent to the switch silicon, reducing the signal

Co-packaged optics are inching closer to

SILICON PHOTONIC TRANSCEIVERS – SHIPMENTS Silicon photonic transceiver shipments are expected to grow significantly in the coming five years, with a CAGR of 17%.

Inphi: 400G DR4 Silicon Photonics Platform | Lightwave

Inphi's 400G DR4 silicon photonics platform includes a silicon photonics integrated circuit (PIC), a flip-chip transimpedance amplifier (TIA), and an analog controller.

Inphi sampling COLORZ II QSFP-DD optical transceiver

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Marvell COLORZ II 400ZR QSFP-DD Product Brief

The COLORZ II 400ZR QSFP-DD utilizes 7 nm coherent DSP technology, including its low power C-FEC as well as innovative silicon photonics, driver, and TIA technology to provide coherent

Inphi Introduces Next-Generation 400G DR4 Silicon Photonics

--Inphi Corporation, a leader in high-speed data movement interconnects, today announced the sampling of its next-generation 400 G DR4 silicon photonics platform solution which

Co-Packaged Optics and an Open Ecosystem

The pace of bandwidth growth isn't slowing down, and each generation draws more power than the last. To address this, the industry needs

Inphi Samples First Coherent DSP Enabling 400G Pluggables Setting

Inphi is now sampling its multi-rate 100/200/300/400G 7nm Coherent DSP to qualified customers. This effort is part of an overarching strategy to drive a comprehensive ecosystem of

Recent advances in integrated silicon photonics engine for coherent ...

Silicon photonics (SiPh) are promising technologies for digital coherent optical communications because they can monolithically integrate all optical functions except for a laser,

Inphi: Alcor 400G DR4 Silicon Photonics Platform

The new Alcor platform includes Inphi's field-proven PAM4 DSP technology, linear TIA, and driver to provide even higher levels of integration and lower power for

Marvell Silicon Photonics Light Engine for AI

Marvell just showed off its next-generation silicon photonics light engine for future pluggable modules and co-packaged optics

NeoPhotonics, Inphi complete 400ZR interoper demo over

These modules utilize NeoPhotonics industry leading coherent optical components including its Silicon Photonics Coherent Optical Subassembly

High-coherence parallelization in integrated photonics

Researchers demonstrate the high-coherence parallelization in integrated photonics. Their high-coherence, high-power, multiwavelength light source drives a silicon photonic link with a

DCI Optical Modules | Delivering high bandwidth over

Using Marvell coherent DSP technology and the field-proven Marvell silicon photonics platform, switch-pluggable COLORZ™ modules make high-speed

NeoPhotonics and Inphi Complete Interoperability

These modules use NeoPhotonics coherent optical components including its Silicon Photonics Coherent Optical Subassembly (COSA) and low

Inphi : NeoPhotonics and Inphi Complete the First Successful ...

These modules utilize NeoPhotonics industry leading coherent optical components including its Silicon Photonics Coherent Optical Subassembly (COSA) and low power consumption, ultra-narrow

NeoPhotonics and Inphi show 400ZR interoperability

Inphi and NeoPhotonics have completed the first interoperability demonstration of OIF 400ZR Implementation Agreement compliant coherent transceivers, operating successfully across

Inphi debuts its next-gen 400G DR4 silicon photonics platform

Inphi has begun sampling its next-generation 400G DR4 silicon photonics platform solution, which includes a silicon photonics integrated circuit (PIC), a flip chip transimpedance

Inphi Introduces Next-Generation 400G DR4 Silicon Photonics

Inphi brings high volume silicon wafer scale manufacturing to the optics industry by offering customers the option to purchase Inphi-designed high-performance 400G DR4 PICs in full

Inphi Corporation Introduces Next-Generation 400G DR4 Silicon Photonics ...

Inphi Corporation announced the sampling of its next-generation 400G DR4 silicon photonics platform solution which includes a silicon photonics integrated circuit (PIC), a flip chip

NeoPhotonics and Inphi Complete the First Successful Interoperability ...

These modules utilize NeoPhotonics industry leading coherent optical components including its Silicon Photonics Coherent Optical Subassembly (COSA) and low power consumption, ultra-narrow

Silicon Photonics and Integrated Optics

While the silicon photonics platform was able to design most of the optical components in smaller dimensions than the respective InP components,

Silicon Photonics for Coherent Applications

Main advantage of silicon photonics Ability to integrate many elements with very high yield Not Die cost savings Monolithic CMOS integration

Inphi samples next-gen 400G DR4 silicon photonics platform for ...

Inphi's Porrima Gen3 low-power PAM4 DSP with integrated 56Gbaud laser driver. "Cloud Light is a premier supplier of advanced optical modules for data-center interconnect and has a strong

Inphi Corporation

Inphi Corporation is an American company that produces 10G-800G high-speed analog and mixed-signal semiconductor components and optical subsystems to networking original equipment manufacturers (OEMs), optical module, cloud and telecom service providers. Its headquarters are located in Santa Clara, California. Inphi develops linear transimpedance amplifiers, modulator drivers, optical physical layer d

Inphi Corporation

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Contact Us

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

Website: <https://www.tomor.eu>

Email: info@tomor.eu

Phone: +49 69 2381 5497

Address: Am Hauptbahnhof 10, 60329 Frankfurt am Main, Germany

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