



Adam Tas Corridor Energy

Marvell optical modules





Overview

The Marvell® PAM4 optical DSP portfolio, including Spica™ and Nova™ DSPs, addresses the critical need for high-bandwidth optical interconnects to power AI infrastructure. The Marvell data center interconnect portfolio includes COLORZ®, COLORZ® 400 and COLORZ® 800 modules in multiple form factors to connect regional data centers. Marvell has become a founding member of the eXtra dense Pluggable Optics (XPO) Multi-Source Agreement (MSA), an industry initiative organized by Arista Networks to define a new optical transceiver form factor purpose-built for AI-scale infrastructure. The modules incorporate Marvell's new Orion 800 Gbps coherent DSP and silicon photonics. Cloud is the network® Marvell's innovative COLORZ Silicon photonics technology integrates hundreds of discrete components on a single die, resulting in the industry's first low power. Marvell Technology, IncMRVL is ready to unveil a groundbreaking showcase at OFC 2024, featuring a range of innovative products such as probabilistic constellation shaping (PCS), 3D Silicon Photonics Engine, 5nm 800 Gbps transmit-only PAM4 optical DSP, and 1.



Marvell optical modules



Marvell Announces Breakthrough Co-Packaged Optics

New Marvell AI accelerator (XPU) architecture enables higher bandwidth and longer reach scale-up fabric connections for custom AI servers.

Top 5 Stocks For AI's Optical Revolution In 2026

Nvidia's \$6B March investments highlight the critical role of optical connectivity, benefiting Marvell, Lumentum, Coherent, Ciena, and Applied Optoelectronics. MRVL's NVLink integration and



Broadcom, Marvell set to benefit as 1.6T optical modules near mass

1.6T optical communication modules are set for broad adoption in AI data centers in 2026, with optical transceiver vendors and key IC design houses preparing for shipments.

Over 20 Million 400G & 800G Datacom Optical Module

BOSTON (January 7, 2025) - Total shipments of leading-edge datacom optical modules are



projected to tally over \$9 billion for 2024, according to the latest



Optical Modules , Marvell Technology Inc. , Sep 2023

SANTA CLARA, Calif., Sept. 6, 2023 -- The COLORZ ® 800 line of 800-Gbps ZR/ZR+ coherent pluggable optical modules from Marvell Technology connect data centers and other infrastructures



ECOC 2023: Marvell first with 800G ZR/ZR+ DCI modules

The modules incorporate Marvell's new Orion 800 Gbps coherent DSP and silicon photonics platform, which integrates multiple discrete



Marvell, Lumentum, Coherent demo first 800G ZR/ZR+ pluggables for

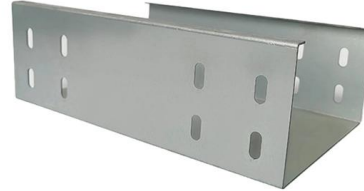
Marvell Technology, Inc., Lumentum Holdings Inc., and Coherent Corp. have announced the successful interoperability demonstration of 800G ZR/ZR+ optical modules over transmission





Marvell to Showcase Interconnect Portfolio for Accelerated

Marvell® COLORZ® 800G ZR/ZR+ for Multi-Site AI Training: Industry-first family of 800 Gbps ZR/ZR+ coherent pluggable optical modules. Supports transmission up to 2,000km, enabling



Marvell Announces Acquisition of Polariton Technologies, Advancing

"Marvell continues to invest in advanced optical technologies to support the rapid evolution of AI and cloud data center infrastructure," said Sandeep Bharathi, President, Data Center

Marvell Joins XPO MSA To Accelerate Innovation in AI

Marvell becomes a founding member of the XPO MSA, introducing a new liquid-cooled optical module form factor that delivers 12.8 Tbps and 4x



InnoLight Collaborates with Marvell on the Launch of 800G ZR/ZR+

The InnoLight 800G ZR/ZR+ optical modules use the Marvell Orion coherent DSP, the industry's first 800Gbps coherent DSP for small form factor pluggable modules. The DSP, along with



800GbE Optics Shipments to Grow 60% in 2025

The datacom optical component market will grow 60%+ to reach over \$16B in revenue during 2025, based primarily on continued growth in 400G and



Co-packaged Optics: Powering the Next Wave of AI

Co-packaged optics (CPO) will play a fundamental role in improving the performance, efficiency, and capabilities of networks, especially the scale-up

Marvell Announces Breakthrough Co-Packaged Optics

Multiple customers are evaluating the technology for integration into their next-generation solutions. For more than eight years, Marvell has delivered





Marvell's 800 Gbps Optical Module Breakthrough: A

They enable the development of optical modules in various industry-standard form factors, doubling the bandwidth of existing 800 Gbps versions, and

How Marvell Stock Surges To \$400

The industry is shifting to optical connections, and Marvell is a key supplier behind that transition. Marvell's optical DSPs hold a sizable share in high-speed segments like 800G modules.

Mesh door/glass door optional



Sp-601 glass door

Sp-602 mesh door

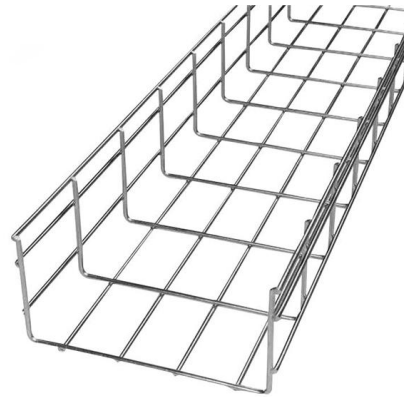
Marvell Stock's Path To \$400

Marvell's optical DSPs command a significant share in high-speed markets such as 800G modules. See Why Marvell's Interconnects are a Significant Factor.



Marvell announces breakthrough co-packaged optics architecture for

Marvell Technology, a leader in data infrastructure semiconductor solutions, announced the advancement of its custom XPU architecture with co-packaged optics (CPO) technology. Building



PAM4 Optical DSPs , Enabling high-bandwidth optical

The Marvell® PAM4 optical DSP portfolio addresses the critical the need for high-bandwidth optical interconnects to power AI infrastructure. Marvell leads the

800GbE optics shipments to grow 60% in 2025 - report

Telecom component revenue will rebound in 2025, with continued growth from 400ZR coherent optics coupling with accelerating sales of the latest



Optical Modules , Marvell Featured Products , Marvell

Marvell's innovative COLORZ Silicon photonics technology integrates hundreds of discrete components on a single die, resulting in the industry's first low power,





Marvell Announces Breakthrough Co-Packaged Optics Architecture for

Multiple customers are evaluating the technology for integration into their next-generation solutions. For more than eight years, Marvell has delivered silicon photonics technology for

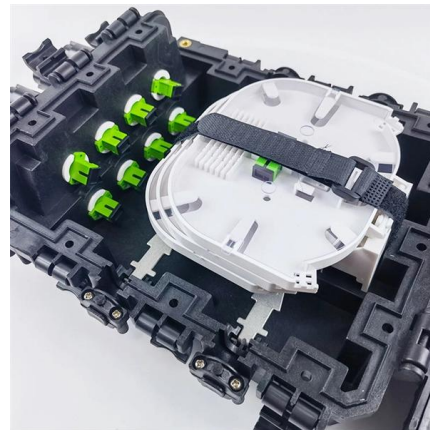


DCI Optical Modules , Delivering high bandwidth over

Marvell offers a portfolio of DCI modules designed to efficiently transmit data over regional fiber networks.

Marvell intro's 1.6 Tbps LPO Chipset, new DSP

Marvell has also unveiled Aquila, which it claims is the industry's first coherent-lite DSP optimised for 1.6 Tbps coherent optical transceiver modules operating at O-band wavelengths.



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