

# Marvell Optical-to-Electrical Module

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## Marvell Optical-to-Electrical Module

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### OFC 2026 Heralds Optical Shift for AI Factories

Marvell and Lumentum. The two companies have jointly developed a rack-level system that integrates Marvell's optical digital signal processors (DSPs) and datacenter interconnect module

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### Marvell Unveils Industry's First 3nm 1.6 Tbps PAM4

Ara, the industry's first 3 nm PAM4 optical DSP, builds on six generations of Marvell leadership in PAM4 optical DSP technology. It integrates

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### DCI Optical Modules , Delivering high bandwidth over

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

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### 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.

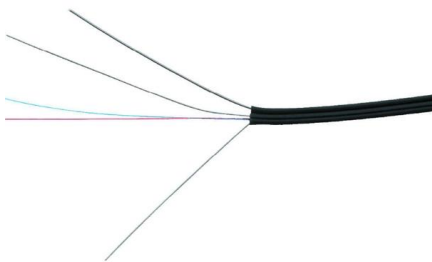
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### How Marvell Stock Surges To \$400

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.

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### 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.

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IP65 / IP67 Sealing Design



Reserved Bottom Mounting Holes

### Marvell Announces Breakthrough Co-Packaged Optics Architecture for

New Marvell AI accelerator (XPU) architecture enables higher bandwidth and longer reach scale-up fabric connections for custom AI servers. XPUs with integrated Co-Packaged Optics (CPO)

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### 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

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### Marvell Announces Acquisition of Polariton Technologies

Marvell Technology, Inc., a leader in data infrastructure semiconductor solutions, today announced the acquisition of Polariton Technologies, a developer of high-speed, low-power plasmonics-based

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### Marvell Announces Breakthrough Co-Packaged Optics

Marvell Announces Breakthrough Co-Packaged Optics Architecture for Custom AI Accelerators  
New Marvell AI accelerator (XPU) architecture enables

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Length:39.5mm  
Small-end inner diameter:2.0mm  
Large-end inner diameter:5.0mm  
Outer diameter:5.65mm/6.5mm

### Marvell COLORZ 800G Silicon Photonics Module and Orion

Inside an optical module, one needs to convert electrical signals from a switch, NIC, or other device into patterns of light, in the right wavelengths and modulations to travel over an optical

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## 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

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## Co-Packaged Optics (CPO) Market Size to Hit USD

The global co-packaged optics (CPO) market size is evaluated at USD 95.04 million in 2025 and is predicted to hit around USD 1,055.11 million by

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## 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

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## Marvell Ara PAM4 Optical DSP

The Marvell Ara PAM4 DSP is a next generation solution for GenAI and cloud datacenter interconnects utilizing pluggable transceivers. Ara features eight 200Gbps/channel PAM4 host electrical interfaces,

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### Marvell announces CPO for AI Accelerators

This enables scale-up connectivity within AI servers that spans multiple racks with optimal latency and power dissipation. First demonstrated at OFC

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### CPO Value Chain Summary from Mirae Asset: Laser Source:

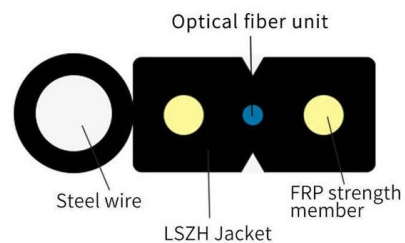
CPO Test: "Expanding entry of new players"  
Micro Lens / Optical Systems: "Expanding entry of new players"  
TLDR: Scale Up CPO is coming next. Think the analyst note missed a bunch of

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### Marvell Announces Industry's First 5nm Transmit-Only

Designed for transmit retimed optical modules (TRO modules), Spica Gen2-T can reduce the power consumption of 800 Gbps optical modules by more

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### Marvell Announces Industry's First 5nm Transmit-Only 800G PAM4

Escalating cloud and AI compute demands are driving service providers to expand the breadth and capacity of their optical interconnect networks and adopt higher-bandwidth optical modules so they

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## Silicon Photonics Based 1.6T Transceiver Modules

Mar. 31, 2025. Coherent will show a live demonstration of its silicon photonics-based 1.6T-DR8 transceiver module using a Marvell® Ara 3nm optical digital signal

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## Marvell to Demonstrate Industry's First 400G/lane PAM4 Electrical-to

Marvell (booth #2129), Lumentum (booth #2119) and TeraHop (booth #2429) will showcase live demonstrations of the 400G technology for both optical and electrical applications at

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## Marvell Unveils Industry's First 3nm 1.6 Tbps PAM4 Interconnect

Ara, the industry's first 3nm PAM4 optical DSP, builds on six generations of Marvell leadership in PAM4 optical DSP technology. It integrates eight 200 Gbps electrical lanes to the host

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## These 6 stocks could be major winners of an upcoming optics

Optical interconnects transmit data between chips, boards and systems in data centers using light, instead of electricity as traditional copper wires do - improving bandwidth density and

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## Marvell Announces Breakthrough Co-



## Packaged Optics

The Marvell 6.4T 3D SiPho Engine is a highly integrated optical engine with 32 channels of 200G electrical and optical interfaces, hundreds of

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## Marvell's 800 Gbps Optical Module Breakthrough: A

This innovation, designed for transmit retimed optical modules (TRO modules), drastically improves power efficiency by reducing over 40% of power

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