

# Hungarian Direct Sales of Co-packaged Optical PAM4



## Overview

The primary purpose of this paper is to provide an overview of the state-of-the-art progress of CPO, and identify the key challenges and their potential solutions. It is worth noting that the content in this paper is by no means exhaustive for such a rapidly developing field. The Marvell® PAM4 optical DSP portfolio, including Spica™ and Nova™ DSPs, addresses the critical the need for high-bandwidth optical interconnects to power AI infrastructure. Marvell leads the pluggable module ecosystem with low-power, high-performance silicon for AI, cloud, enterprise and 5G. This report analyses the market for semiconductor IC chipsets used in optical transceivers and related products. The chipsets include laser drivers, CDRs, TIAs and in some cases FEC, PAM4 and coherent DSP ICs. Demand for 400/800GbE connectivity inside mega datacenters and 400/800G DWDM optics on. NVIDIA is developing a co-packaged optics (CPO) platform that integrates optical and electrical components to improve data-center connectivity, in collaboration with industry partners like TSMC. Electrically pluggable co-packaged copper and optics solutions (known as CPX) are achievable on a 95 mm x 95 mm or smaller substrate using Samtec's SFCM connector. CPO is widely regarded as

a promising.

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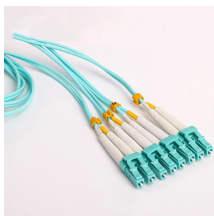
This interoperability demo consists of a 112G co-packaged optical engine driven by a remotely sourced laser transmitting an optical signal across single mode fiber to an electrical signal Linear test board ...



Lumentum is a global leader in optical and photonic products, enabling high-bandwidth connectivity, precision sensing, and advanced manufacturing.



Co-packaged optics (CPO) is a disruptive approach to increasing the interconnecting bandwidth density and energy efficiency by dramatically shortening the electrical link length through advanced ...



In this example, we use INTERCONNECT solutions to study the 4-Pulse Amplitude Modulation (PAM) format. In this example, you will learn...



The optical components and chips of PAM4 modules are very different from those of NRZ modules. The following table lists the differences between 50G QSFP28 LR and 25G SFP28 LR.



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Si-Fly® HD co-packaged and near-chip systems provide the highest density 224 Gbps PAM4 solution in today's market.



Today, our revenue growth is primarily being driven by increased pluggable optical modules and optical cable production volumes using our 800 and 1.6T PAM4 products.



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## Contact Us

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