

# **New Zealand Certified 800G Optical Module PAM4**





## Overview

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Lumentum's 800G 2×DR4 OSFP transceiver provides high-speed, energy-efficient optical connectivity for AI and cloud data centers. The specification is designed for 800 Gbit/s PAM4 optical modules operating at 100 Gbit/s per lane, detailing test procedures for optical and electrical interfaces, power consumption, and both interconnection and interoperability assessments. & FRANKFURT, Germany-- (BUSINESS WIRE)-- Source Photonics, a leading global provider of. 25 Gbps PAM4 per lane, achieving a total bandwidth of 800 Gbps over single-mode fiber. These are stress ratings only and functional operation of the device at these or any. The BCM87812 leverages market-leading 7-nm PAM-4 PHY transceiver technology platform, already proven with the BCM87400 and BCM87800 PHYs, and provides a path to accelerating 800G QSFP-DD/OSFP optical module availability.



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# **Source Photonics offers line of PAM4 OSFP and QSFP**

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At this week's virtual OFC 2021, Source Photonics is showing off a new line of 800G optical transceivers in OSFP and QSFP-DD800 formats. The PAM4 modules,

## **800G OSFP DR8/DR8+ PAM4 Optical Transceiver**

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Optical Transceiver Jabil 800Gb/s OSFP DR8/DR8+ (Data Center Reach 8-lane) PAM4 Optical Transceiver is a small form-factor, high speed, and low power consumption product targeted for use



# **PAM4 Modulation , How is Transforming Optical**

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Short-distance 400G networking is made possible by PAM4 modulation scheme, which is set to revolutionize optical networking.

## **1.6T 2xFR4 OSFP PAM4 Optical Transceiver**

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1.6T 2xFR4 OSFP PAM4 Optical Transceiver is for data communications applications. The high bandwidth module supports dual 800G Ethernet or InfiniBand connections, or a single 1.6T Ethernet

## **800G 2xDR4 OSFP Transceiver Module**

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Lumentum's 800G 2xDR4 OSFP transceiver provides high-speed, energy-efficient optical connectivity for AI and cloud data centers. Each module integrates eight electrical and eight optical channels



## **Research and design of 800Gbit/s PAM4 LR8 10km optical module**

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400G optical modules are now in commercial scale, but with the mature development of 5G networks and the rapid expansion of data centers, increasing user demand

## **800G Client Optics in the Data Center**

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The OSFP specification was expanded in 2021 to include support for 800G modules with 100G PAM4 lanes (OSFP800) and increased module power support to support a maximum of approximately 30W

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Contact Now 1. Product Overview The OSFP-800G-DR8 represents the pinnacle of high-bandwidth optical interconnects, specifically engineered for 800 Gigabit Ethernet links in AI-driven and cloud

## **BCM87812 7-nm CMOS 800G (8:8) PAM-4 Transceiver PHY with**

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The BCM87812 leverages market-leading 7-nm PAM-4 PHY transceiver technology platform, already proven with the BCM87400 and BCM87800 PHYs, and provides a path to accelerating 800G QSFP

## **800GBASE 2 x FR4 OSFP Finned Top PAM4 1310nm 2km DOM Dual**

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The 800GBASE 2x FR4 OSFP optical transceiver module is designed for 800GBASE Ethernet throughput up to 2km link lengths over OS2 single-mode fibre (SMF) via dual duplex LC/UPC



## **Embracing Innovation: The Evolution of 800G Optical Transceivers**

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Explore the cutting-edge technology driving the development of 800G optical modules, revolutionizing network connectivity with faster speeds and enhanced performance.

## **OSFP-800G-SR8 OSFP 8x100G SR8 PAM4 Optical Transceiver Module**

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OSFP 8x100G SR8 transceiver modules are designed for 800 Gigabit Ethernet links over 60m OM3 or 100m OM4 fiber. The module has 8 independent channels of electrical input/output,



## **PAM4 Optical DSPs , Enabling high-bandwidth optical**

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Nova 1.6T PAM4 DSPs enable 1.6T and 800G optical transceiver modules for AI/ML and next-gen cloud data center networks. Supports both Ethernet and InfiniBand

## **PAM4 Optical Modulation: Meeting the Demands of Increasing**

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In NRZ modulation, the optical signal has two levels representing the digital "1" and "0", and the laser is modulated between these two levels at the desired data rate. However, NRZ-based

## **Test Specification for 800 Gbit/s PAM4 Optical Module at 100 Gbit/s**

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The specification is designed for 800 Gbit/s PAM4 optical modules operating at 100



Gbit/s per lane, detailing test procedures for optical and electrical interfaces, power consumption, and both

## **Source Photonics Unveils Its Complete Solution of 1.6T and 800G**

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New 1.6T and 800G transceiver family enabled by 200G PAM4 EMLs paves the way for wide scale AI/ML and cloud Data Center deployments towards next-gen 51.2T and 102.4T switch

## **Embracing the Future: The 800G Technology Revolution**

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Discover the key technological and standardization factors propelling 800G evolution, and explore three practical application scenarios for 800G optical



## 800G Optical Transceivers - Architectures, Progress

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The architectures, deployment progress, and future trends of 800G optical transceivers module. Learn how are reshaping data center and telecom networks

## Research and design of 800Gbit/s PAM4 LR8 10km optical module

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400G optical modules are now in commercial scale, but with the mature development of 5G networks and the rapid expansion of data centers, increasing user demand for data transfer rates, the

### Contact Us

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For datasheets, pricing, or custom optical networking solutions, please visit:  
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