

# PAM4400G Optical Module



## Overview

The Broadcom® BCM87840 is the industry's highest-performance and lowest-power single-chip 400GbE PAM-4 PHY transceiver capable of driving four lanes of 106-Gb/s PAM-4 at 53 Gbaud, while supporting DR4, FR4, LR4, and QSFP112 optical links. The BCM87840 leverages Broadcom's market-leading 7-nm PAM-4. The Marvell Perseus 100 Gbps/channel optical PAM4 DSP is built on generations of Marvell PAM4 DSP leadership and the strength of the industry's most widely deployed Porrima™ and Spica™ DSP. Perseus is ideal for artificial intelligence/machine learning, cloud data center, and high-performance. The MQD-F2F2C is a cost-effective module with high performance, which is optimized for Datacenter, supporting data-rate of  $4 \times 53.125$  GBd PAM4 Optical interface and  $8 \times 26$ . Its transmission distance is up to 100m on OM4/OM5 MMF. The module mainly consists of two. MaxLinear's highly integrated PAM4 DSPs offer superior link-margin performance and low power to enable 100G, 400G, 800G, and 1. Eoptolink is producing full range of OSFP (Octal Small Form Factor Pluggable) a new pluggable form factor with eight high speed electrical lanes that will initially support 400 Gbps (8x50G or 4x100G). It is slightly wider and deeper than the QSFP-DD but it still supports 32 OSFP ports per 1U front. There are two common types of 400G transceiver packages: OSFP and QSFP-DD.

## Article Content

### BCM87840 7-nm CMOS 400G (4:4) PAM-4 PHY Product Brief

The BCM87840 leverages Broadcom's market-leading 7-nm PAM-4 PHY transceiver technology platform already proven with BCM8740X PHY plus provides a path to accelerating 400G QSFP

### PAM4 DSPs

MaxLinear's highly integrated PAM4 DSPs offer superior link-margin performance and low power to enable 100G, 400G, 800G, and 1.6T optical interconnects inside the data center.

400G CFP2 DCO-Genuine optics 400G series products.

400G CFP2 DCO The CTR-B3F4C Transceiver is a high performance, cost effective module for optical data communication applications to 400G or 200G. The CTR-B3F4C is designed to 400G 400Km

### 400G Optical Transceiver Based on PAM4 Modulation

Discover the application of PAM4 modulation in 400G transceivers, including multi-mode and single-mode options, and the future trends in optical transceivers.

### Overview of 100G PAM4 Optical Modules with DWDM Technology

Discover the benefits, features, and applications of 100G PAM4 DWDM optical modules, and learn how they compare with coherent optics for modern network deployment.

### XGSPON OLT SFP+ E2-PON

The HG Genuine PLGS1-98A/98B Transceiver is a high performance, cost effective module for serial optical data communication applications to 10G. The PLGS1-98A/98B is designed to XGSPON OLT.

### Optical & IC Products

SINGLE SINGLE MODE MODE OPTICAL OPTICAL MODULE MODULE SINGLE MODE OPTICAL MODULE Comprised of Semtech's market-leading, linear, Physical Media Dependent (PMD)

### The Ultimate Guide to OSFP 400G DR4 Optical Modules

The OSFP (Octal Small Form-Factor Pluggable) 400G DR4 optical module plays a critical role in today's high-speed data communication networks. With the ability to transmit data at speeds

### Marvell Polaris 200G/400G PAM4/NRZ Retimer and Gearbox Product

The Marvell Polaris PAM4 DSP is a next generation solution for cloud data center, high-performance computing, and AI optical transceivers. Polaris supports multiple industry standard protocols up to

BCM87402 400GbE PAM-4 (8:4) with Direct-Drive Product Brief

Broadcom's advanced DSP technology and equalization techniques compensate for optical impairments while maintaining the world's lowest power to enable the deployment of 12.8 Tb/s and higher-density

Analysis of 400G OSFP SR4 Optical Module

Traditional 100G/200G optical modules can no longer meet the demands of high-density, low-latency traffic surges. The 400G OSFP SR4 optical

OEM & Aftermarket Auto Parts | Genuine GM Parts

GM Genuine Parts and ACDelco Original Equipment parts are built on innovation that never lets up. When you choose a true OE part designed, engineered, tested

Porrima 100G/400G PAM4 for Optical Module

The Marvell Porrima PAM4 DSP is a next generation solution for cloud data center, high-performance computing, and AI optical transceivers. Porrima supports multiple industry standard protocols up to

BCM87840 7-nm CMOS 400G (4:4) PAM-4 PHY Product Brief

The Broadcom® BCM87840 is the industry's highest-performance and lowest-power single-chip 400GbE PAM-4 PHY transceiver capable of driving four lanes of 106-Gb/s PAM-4 at 53 Gbaud, while

Genuine optics 25G-200G series products.

Genuine optics 25G-200G series products are high performance, cost effective module.

400G OSFP PAM4 LR4 1310nm10KM Optical

It is slightly wider and deeper than the QSFP-DD but it still supports 32 OSFP ports per 1U front panel, enabling 12.8 Tbps per 1U switch slot.

BCM87400: 7-nm 400GbE PAM-4 PHY (8:4) Product Brief

The Broadcom® BCM87400 series of devices are the industry's highest performance and lowest power single-chip 400GbE PAM-4 PHY transceiver platform capable of driving four lanes of 112-Gb/s PAM

Genuine optics 400G series products.

The 400G QSFP-DD ZR+ Pro Transceiver is a high performance, high output power, cost effective module for optical data communication applications from 100G to

## Huawei 40GE Optical Modules

Buy genuine Huawei 40GE optical modules from GenuineModules with best prices and fast worldwide shipping.

## Fiber Optic Cables, Ethernet Cables and SAS Cables

Buy high quality Fiber Optic Cables, Ethernet Cables and SAS Cables from GenuineModules with fast worldwide delivery.

## What is LPO Optical Module? | FiberMall

As shown in the figure below, there are optical module ports on the switch, insert the corresponding optical module into it, and then you can plug the

## 400G QSFP-DD FR4 2km EML

This Giglight GQD-SPO401-FR4X product is designed for 2km optical communication applications. The module converts 8 channels of 50Gb/s (PAM4) electrical input data to 4 channels of CWDM optical

## 400G QSFP-DD SR4 -Genuine optics 400G series

MQD-F2F2C is a cost-effective module with high performance, which is optimized for Datacenter, supporting data-rate of  $4 \times 53.125$  GBd PAM4 Optical interface and 8

## 400G QSFP-DD SR4 -Genuine optics 400G series

The high-speed electrical interface is based on low-voltage logic, with nominal 100-ohm differential impedance, AC coupled in the module. Users can access a

## Why the 100G Optical Module Transformation is Full

The Porrima 100G DSP platform has been in production since 2019 and is the industry's best-selling solution. Based on PAM4 technology, the Porrima DSP

## 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

## How 400G Optical Modules Are Shaping Next-Gen

Discover key factors driving the rapid adoption of 400G optical transceivers, including AI, 5G, coherent optics, and market trends shaping next

## Wuhan Huagong Genuine Optics Tech Co., Ltd

And HG Genuine is the only manufacturer possessing the complete production lines from epitaxy, chip fabrication, device to module in China. The products range of

## Perseus Optical PAM4 DSP for 400G/800Gbps Optical Module

Perseus is the industry's first 5nm PAM4 DSP to integrate both a transimpedance amplifier (TIA) and linear driver (VCSEL/SiPho PIC). The highly integrated Perseus family of products minimize the

QEPT 4-TRX 200G PAM4

QEPT 4-TRX 200G PAM4 200 Gb/s High-Speed Optical Pluggable Module DOUBLE PERFORMANCE, SAME SIZE, the Amphenol AOP 56Gbps commercial temperature " Quad Embedded Pluggable

## Contact Us

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

Website: <https://www.ourensemeeting.es>

Email: [sales@ourensemeeting.es](mailto:sales@ourensemeeting.es)

Phone: +34 685 473 921

Address: Calle de Alcalá, 25, 28014 Madrid, Spain

This document is for informational purposes only. Specifications subject to change without notice.

