

# Optical Module PHY Chip Manufacturer



## Overview

Broadcom's Optical Module PHY portfolio spans multiple technology nodes — 16nm, 7nm and now 5nm, with data rates from 100 Gbs to 1. Comprising five flagship platforms, Centenario, Jesko, Portofino, Gemera, and Cygnus, Broadcom's DSP PAM-4 portfolio covers 100G, 400G, 800G, and 1.6T PMDs. A 16-wavelength VLSP Light Engine powering 51.2 Tbps at 800 Gbps per fiber at  $\pm 20$  GHz wavelength accuracy. This Lightmatter breakthrough represents an 8X leap in bidirectional fiber bandwidth. Suzhou TFC Optical Communication Co. 52 billion by 2032, at a CAGR of 8.0% during the forecast period 2025-2032 MARKET INSIGHTS The global Optical Module Chip Market size was valued at US\$ 823 million in 2024 and is projected to reach. Which listed companies manufacture optical module chips?

1. Core components include PHY chips, driver ICs, TIAs, control ASICs, and VCSEL/DFB lasers. These. Allrun Opti provides top-tier optical modules for data center operators, optimizing PUE values in line with the trend of silicon photonics to support the construction of hyperscale and green data centers. Technology as a Bridge, Frontiers as Destinations. Allrun Opti Optical Transceivers deliver.

## Article Content

### Optical Modules

Aoyuan Yi Chuang, part of the 30-year-old Aoyuan Group, is dedicated to the localization of optical modules, offering high-quality and high-performance products and customized solutions across ...

### 100G to 1.6T Optical Module PHY Product Selection Guide

Broadcom's 5nm PCIe and CXL PHY portfolio offers industry's lowest power, lowest latency and best performing retimer products, enabling Data Center Server and Storage manufacturers to build most ...

### Optics and Transceivers | Fiber Optical Transceivers

FS offers a growing portfolio of optical transceivers, with speed range from 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, 400G to 800G and beyond. The fiber optic transceiver modules can work in any ...

### Ethernet PHY

MACOM serves customers with a broad product portfolio that incorporates RF, Microwave, Analog and Mixed Signal and Optical semiconductor technologies.

### 10 companies in the optical transceiver industry chain 2024

To help you choose the best partner, this article will analyze and introduce 10 companies in the optical transceiver industry chain for you.

### Lightmatter®

Explore the Passage M1000 Reference System, a groundbreaking platform built around the Passage M1000 3D Photonic Superchip.

### Optical Module Chip Market 2025

The optical module chip market exhibits a fragmented yet competitive structure with global technology providers, semiconductor manufacturers, and specialized optical communication companies vying for ...

### Broadcom Introduces Industry's First 5nm 100G/lane Optical PAM-4 ...

Built on Broadcom's proven 5nm 112G PAM-4 DSP platform, this fully integrated DSP PHY delivers superior performance and efficiency and drives the overall system power down to ...

### Ethernet PHYs | Microchip Technology

We offer 10BASE-T, 10BASE-T1S, 100BASE-TX, 100BASE-T1 and 1000BASE-T PHYs. Our 1-800 GbE PHYs target data center, service provider, enterprise and AI/ML applications.

Which listed companies manufacture optical module chips?

A number of publicly listed companies worldwide produce or integrate these chips into optical modules, leading the development of high-speed short-reach and long-reach optical ...

## Contact Us

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