

Global Micro LED CPO Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Micro LED CPO market size is predicted to grow from US\$ million in 2025 to US\$ 72.20 million in 2032; it is expected to grow at a CAGR of 70.5% from 2026 to 2032.

Micro LED Co-packaged Optics (CPO) is a new-generation optoelectronic integration solution that uses Micro LED chips smaller than 50µm as the optical emission source, which are deeply co-packaged with CMOS driver circuits, ASICs, GPUs, and switch chips through advanced packaging technologies to realize short-reach, high-speed optical interconnection between chips or within equipment racks. Its core lies in adopting the Wide and Slow (WaS) parallel architecture to replace traditional high-speed laser solutions, achieving ultra-high bandwidth and ultra-low power consumption transmission through massive parallel low-speed Micro LED channels.

Micro LED CPO (Micro LED Co-packaged Optics) represents a novel optical interconnect approach characterized by 'high potential, low penetration, and high engineering barriers.' Its appeal lies not in short-term mass production, but in its potential to offer advantages over copper cables and some traditional optical modules in energy efficiency, bandwidth density, and packaging synergy for short-range interconnects in AI data centers. Micro LED CPO is still in the early stages of transitioning from proof-of-concept to sample and reliability verification, with a significant engineering gap before large-scale commercialization, particularly in areas such as CMOS high integration, fiber coupling accuracy, thermal management, packaging yield, and long-term reliability. Benefiting from policies supporting green computing power and the development dividends of the digital economy, the market demand for Micro LED CPO will continue to be released, and the application scenarios will be further extended. It is expected to become the core track with the greatest growth potential in the optical

communication industry, leading the technological change and industrial upgrading in the field of short-distance optical interconnection.

This report presents a comprehensive overview, market shares, and growth opportunities of Micro LED CPO market by product type, application, key players and key regions and countries.

Segmentation by Type:

Intra-rack short-reach optical interconnect

Inter-rack optical interconnect

Board-level / package-level ultra-short-reach optical interconnect

Segmentation by Application:

Data Center and HPC

Telecommunication and Networking

This report also splits the market by region:

United States

China

Europe

Other regions

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

BOE HC SemiTek Corporation

Shenzhen MTC

Xi'an Saphlux Semiconductor Technology Co., Ltd.

San'an Optoelectronics Co., Ltd.

Xiamen Changelight Co., Ltd.

Leyard Optoelectronic Co., Ltd.

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