

# Global Micro LED CPO Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Micro LED CPO market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ 65.54 million by 2032 with a CAGR of 66.4% during review period.

Micro LED Co-packaged Optics (CPO) is a new-generation optoelectronic integration solution that uses Micro LED chips smaller than 50?m 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.

The Micro LED CPO market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

### Market segmentation

Micro LED CPO market is split by Type and by Application. For the period 2026-2032, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type,

Intra-rack short-reach optical interconnect

Inter-rack optical interconnect

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

### Market segment by Application

Data Center and HPC

Telecommunication and Networking

### Market segment by players, this report covers

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.

Market segment by regions, regional analysis covers

North America

Europe

Asia-Pacific (China, Japan, South Korea, Rest of Asia)

South America

Middle East & Africa

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