

# MicroLED Interconnect Market Size, Share & Trends Analysis Report By Product (GPU-to-GPU, Chip-to-Chip), By Data Rate (Less than 25 Gbps, More than 100 Gbps), By Distance (Less than 1 meter, 1- 5 meter), By Region, And Segment Forecasts, 2026 - 2033

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## Abstracts

The global microLED interconnect market size was estimated at USD 181.6 million in 2025 and is projected to reach USD 722.0 million by 2033, growing at a CAGR of 18.1% from 2026 to 2033. The market is driven by growing demand for high-performance and low-power data transfer solutions.

Applications in AI, high-performance computing, and data centers are key contributors. Companies are focusing on providing high-bandwidth interconnect technologies. This demand is accelerating innovation and adoption in the sector. The MicroLED interconnect industry is moving toward high-performance, energy-efficient solutions. Companies are focusing on developing modular and scalable architectures to support larger, more complex systems. There is a strong emphasis on ultra-high-density chip-to-chip connections for improved efficiency. Demand is rising for low-power, sustainable interconnect technologies in advanced applications. The market is increasingly adopting optical and photonic approaches to meet the needs of next-generation AI and high-performance computing. For instance, in March 2025, AvicenaTech, Corp. introduced its modular and scalable LightBundle microLED interconnect platform, offering ultra-high-density chip-to-chip connections with high energy efficiency. The platform aims to support large A

I GPU clusters across multiple racks while overcoming the reach limitations of current

copper interconnects.

The expansion of optical and photonic interconnect approaches is gaining momentum to overcome reach limitations and enable high-speed communication. These technologies provide faster data transmission compared to traditional electrical interconnects, supporting the growing demands of AI and high-performance computing systems. By leveraging light-based communication, they reduce signal loss and improve energy efficiency across long distances. Optical and photonic interconnects allow for higher bandwidth and lower latency, which is essential for large-scale GPU clusters and data centers. Their modular designs make them adaptable to various system architectures, including co-packaged and pluggable solutions. These approaches are driving the development of more efficient, scalable, and high-speed computing infrastructure.

The integration of MicroLED interconnects is increasingly being adopted in AI clusters, data centers, and next-generation high-performance computing systems. These interconnects offer enhanced data transfer speeds and improved energy efficiency, which are critical for managing large-scale computations. By enabling ultra-dense chip-to-chip connections, they help overcome the limitations of traditional copper interconnects. Their modular and scalable design allows for flexible deployment across multiple racks and hardware configurations. This technology supports the growing computational demands of AI workloads and machine learning applications. It also facilitates more efficient communication between GPUs and other processing units within large clusters. Companies are investing in MicroLED interconnects to optimize system performance while reducing power consumption. Overall, these interconnects are driving the advancement of high-performance, energy-efficient computing infrastructure.

## Global MicroLED Interconnect Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global microLED interconnect market report based on product, data rate, distance and region.

Product Outlook (Revenue, USD Million, 2021 - 2033)

GPU-to-GPU

GPU-to-Memory

Chip-to-Chip

Data Rate Outlook (Revenue, USD Million, 2021 - 2033)

Less than 25 GBPS

25 - 50 GBPS

50 - 100 Gbps

More than 100 Gbps

Distance Outlook (Revenue, USD Million, 2021 - 2033)

Less than 1 meter

1 - 5 meter

More than 5 meter

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

## Asia Pacific

China

Japan

India

South Korea

Australia

## Latin America

Brazil

## Middle East and Africa (MEA)

UAE

KSA

South Africa

**This report can be delivered to the clients within 8 Business Days**

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