

# Global EML Laser for 100G/400G Optical Transceivers Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global EML Laser for 100G/400G Optical Transceivers market size is predicted to grow from US\$ 460 million in 2025 to US\$ 907 million in 2032; it is expected to grow at a CAGR of 11.1% from 2026 to 2032.

EML Laser for 100G/400G Optical Transceivers is a high-speed electro-absorption modulated laser device that integrates a DFB laser and an electro-absorption modulator on a single InP-based chip, designed to provide low-chirp, high-bandwidth, and high-extinction optical output at 25G–100G per lane for use as the core light source inside 100G and 400G pluggable optical transceiver modules for data center, metro, and telecom transmission links.

Upstream includes InP substrates, epitaxial wafer growth, quantum well materials, photomasks, specialty chemicals, and semiconductor fabrication and RF test equipment suppliers; midstream includes EML chip design, DFB and EAM integration, wafer processing, die testing, and packaging into chip carriers and TOSA assemblies by laser device vendors; downstream focuses on optical transceiver and optical engine manufacturers integrating EML into 100G and 400G modules, which are then installed by switch and router OEMs and finally deployed in hyperscale data centers, telecom transport networks, and AI computing clusters.

Current and planned projects include new InP fab and epitaxy capacity for 50G and 100G per lane EML chips, dedicated production lines for 400G and 800G optical engine light sources, automated TOSA and optical subassembly factories, uncooled and low-power EML development for high-density data center modules, next-generation 112G+ lane EML R&D programs, co-packaged optics light source integration projects with switch ASIC vendors, and regional supply chain localization investments spanning

substrates, chip fabrication, advanced packaging, and high-frequency optical testing infrastructure.

2025 Global Market Average Gross Profit Margin: 42%.

United States market for EML Laser for 100G/400G Optical Transceivers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for EML Laser for 100G/400G Optical Transceivers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for EML Laser for 100G/400G Optical Transceivers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key EML Laser for 100G/400G Optical Transceivers players cover Lumentum, Coherent, Broadcom, Source Photonics, Mitsubishi Electric, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "EML Laser for 100G/400G Optical Transceivers Industry Forecast" looks at past sales and reviews total world EML Laser for 100G/400G Optical Transceivers sales in 2025, providing a comprehensive analysis by region and market sector of projected EML Laser for 100G/400G Optical Transceivers sales for 2026 through 2032. With EML Laser for 100G/400G Optical Transceivers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world EML Laser for 100G/400G Optical Transceivers industry.

This Insight Report provides a comprehensive analysis of the global EML Laser for 100G/400G Optical Transceivers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on EML Laser for 100G/400G Optical Transceivers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global EML Laser for 100G/400G Optical Transceivers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for EML Laser for 100G/400G Optical Transceivers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global EML Laser for 100G/400G Optical Transceivers.

This report presents a comprehensive overview, market shares, and growth opportunities of EML Laser for 100G/400G Optical Transceivers market by product type, application, key players and key regions and countries.

#### Segmentation by Type:

100G Emission Wavelength

400G/800G Emission Wavelength

#### Segmentation by Thermal Control Mode:

Cooled EML

Uncooled EML

#### Segmentation by Modulation Format:

NRZ Modulated EML

PAM4 Modulated EML

Multi-Level Modulated EML

Advanced DSP-Optimized EML

#### Segmentation by Application:

Long-distance Telecommunication Network

Metropolitan Area Network

Data Center Interconnection (DCI Network)

This report also splits the market by region:

#### Americas

United States

Canada

Mexico

Brazil

#### APAC

China

Japan

Korea

Southeast Asia

India

Australia

#### Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Lumentum

Coherent

Broadcom

Source Photonics

Mitsubishi Electric

Sumitomo

NTT Electronics

Yuanjie Semiconductor Technology

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