

Global EML Laser for 100G/400G Optical Transceivers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global EML Laser for 100G/400G Optical Transceivers market size is expected to reach \$ 921 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

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%.

This report studies the global EML Laser for 100G/400G Optical Transceivers demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for EML Laser for 100G/400G Optical Transceivers, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of EML Laser for 100G/400G Optical Transceivers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global EML Laser for 100G/400G Optical Transceivers total market, 2021-2032, (USD Million)

Global EML Laser for 100G/400G Optical Transceivers total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: EML Laser for 100G/400G Optical Transceivers total market, key domestic companies, and share, (USD Million)

Global EML Laser for 100G/400G Optical Transceivers revenue by player, revenue and market share 2021-2026, (USD Million)

Global EML Laser for 100G/400G Optical Transceivers total market by Type, CAGR, 2021-2032, (USD Million)

Global EML Laser for 100G/400G Optical Transceivers total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global EML Laser for 100G/400G Optical Transceivers market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lumentum, Coherent, Broadcom, Source Photonics, Mitsubishi Electric, Sumitomo, NTT Electronics, Yuanjie Semiconductor Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the world EML Laser for 100G/400G Optical Transceivers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global EML Laser for 100G/400G Optical Transceivers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EML Laser for 100G/400G Optical Transceivers Market, Segmentation by Type:

100G Emission Wavelength

400G/800G Emission Wavelength

Global EML Laser for 100G/400G Optical Transceivers Market, Segmentation by Thermal Control Mode:

Cooled EML

Uncooled EML

Global EML Laser for 100G/400G Optical Transceivers Market, Segmentation by Modulation Format:

NRZ Modulated EML

PAM4 Modulated EML

Multi-Level Modulated EML

Advanced DSP-Optimized EML

Global EML Laser for 100G/400G Optical Transceivers Market, Segmentation by Application:

Long-distance Telecommunication Network

Metropolitan Area Network

Data Center Interconnection (DCI Network)

Companies Profiled:

Lumentum

Coherent

Broadcom

Source Photonics

Mitsubishi Electric

Sumitomo

NTT Electronics

Yuanjie Semiconductor Technology

Key Questions Answered

1. How big is the global EML Laser for 100G/400G Optical Transceivers market?
2. What is the demand of the global EML Laser for 100G/400G Optical Transceivers market?
3. What is the year over year growth of the global EML Laser for 100G/400G Optical Transceivers market?
4. What is the total value of the global EML Laser for 100G/400G Optical Transceivers market?
5. Who are the Major Players in the global EML Laser for 100G/400G Optical Transceivers market?
6. What are the growth factors driving the market demand?

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