

Global GaAs-based VCSEL Market Growth 2026-2032

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Abstracts

The global GaAs-based VCSEL market size is predicted to grow from US\$ 813 million in 2025 to US\$ 1821 million in 2032; it is expected to grow at a CAGR of 12.4% from 2026 to 2032.

A vertical-cavity surface-emitting laser (VCSEL) is a semiconductor-based laser diode that emits a highly efficient optical beam vertically from its top surface. VCSELs differ from other common semiconductor optical sources such as Edge Emitting Lasers (EEL) that emit light from the side. VCSEL has the characteristics of single longitudinal mode, circular output spot, low price and easy integration, but the luminous transmission distance is short, suitable for short distance transmission within 500m. The main application scenarios are: internal data center, consumer electronics.

This report studies GaAs-based VCSEL market.

United States market for GaAs-based VCSEL 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 GaAs-based VCSEL 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 GaAs-based VCSEL is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key GaAs-based VCSEL players cover Lumentum, Coherent(II-VI), ams-OSRAM, TRUMPF, Broadcom, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?GaAs-based VCSEL Industry

Forecast? looks at past sales and reviews total world GaAs-based VCSEL sales in 2025, providing a comprehensive analysis by region and market sector of projected GaAs-based VCSEL sales for 2026 through 2032. With GaAs-based VCSEL sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaAs-based VCSEL industry.

This Insight Report provides a comprehensive analysis of the global GaAs-based VCSEL landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on GaAs-based VCSEL portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GaAs-based VCSEL market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaAs-based VCSEL 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 GaAs-based VCSEL.

This report presents a comprehensive overview, market shares, and growth opportunities of GaAs-based VCSEL market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-Mode VCSEL

Multi-Mode VCSEL

Segmentation by Application:

Telecommunications

Consumer Electronics

Data Center

Commercial & Industrial

Automotive

Healthcare

Military

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 analysing the company's coverage, product portfolio, its market penetration.

Lumentum

Coherent(II-VI)

ams-OSRAM

TRUMPF

Broadcom

Mitsubishi Electric

Accelink Technologies

Vertilite

CS Microelectronics

Suzhou Everbright Photonics

Key Questions Addressed in this Report

What is the 10-year outlook for the global GaAs-based VCSEL market?

What factors are driving GaAs-based VCSEL market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do GaAs-based VCSEL market opportunities vary by end market size?

How does GaAs-based VCSEL break out by Type, by Application?

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