

Europe Vertical Cavity Surface Emitting Laser (VCSEL) Market Forecast to 2030 –Regional Analysis – by Type (Single Mode and Multi-Mode), Material [(Gallium Arsenide (GAAS), Indium Phosphide (INP), Others)], Data Rate (Up to 10 GBPS, 10.1 to 25 GBPS, and Above 25 GBPS), Wavelength (Red, Near Infrared (NIR), and Short Wave Infrared (SWIR), Application (Sensing, Data Communication, Industrial Heating & Printing, and Others), and End-use Industry (Mobile & Consumer, Telecom & Infrastructure, Industrial, Defense & Aerospace, Medical, and Automotive & Mobility)

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Abstracts

The Europe vertical cavity surface emitting laser market is expected to grow from US\$ 303.20 million in 2023 to US\$ 925.45 million by 2030. It is estimated to grow at a CAGR of 17.3% from 2023 to 2030.

Emerging Telecommunication Industry Fuel Europe Vertical Cavity Surface Emitting Laser (VCSEL) Market

Demand for high-speed internet and better connectivity of devices is rising. Therefore, small and large enterprises are digitalizing their businesses to increase output and simplify processes and workflow. Governments of several countries are investing in strengthening their telecom sector to fulfil the rise in demand for better connectivity. Thus, a rise in the telecom industry leads to the increasing use of fiber optics cables for optical communications. VCSEL is widely used as a light-emitting device in data

transmissions via fiber optics cables. It offers high modulation speeds, beam quality, and energy efficiency, leading to surging demand for optical communications. Therefore, the emerging telecommunication industry is fueling the Europe VCSEL market growth.

Europe Vertical Cavity Surface Emitting Laser (VCSEL) Market Overview

The Europe VCSEL market is segmented into Germany, Italy, France, the UK, Russia, and the Rest of Europe. According to the World Economic Forum in September 2022, the European Union (EU) has set a target to increase its share in the global semiconductor industry from 9% in 2022 to 30% by 2030.

To boost the growth of the semiconductor industry in the region, the European Commission's European Chips Act aims to increase the domestic production of semiconductors. According to the European Commission, in April 2023, STMicroelectronics and GlobalFoundries invested US\$ 8.13 billion (EUR 7.4 million) to open new microchip manufacturing plants to raise Europe's ability to meet European and global demand for semiconductors. Such investments contribute to the growth of the wafer-based semiconductor market. Thus, several market players are introducing advanced VCSEL wafers to boost the semiconductor industry across various sectors. For instance, in May 2022, IQE PLC, a UK-based semiconductor company, launched a 200 mm (8") VCSEL wafer for wireless and photonics compound semiconductor applications. It can also be used in 3D sensing applications, such as smartphones. Thus, rising government efforts to boost the semiconductor industry contribute to the VCSEL market growth in the region.

Exhibit: Europe Vertical Cavity Surface Emitting Laser (VCSEL) Market Revenue and Forecast to 2030 (US\$ Million)

Europe Vertical Cavity Surface Emitting Laser (VCSEL) Market Segmentation

The Europe vertical cavity surface emitting laser market is segmented into type, material, data rate, wavelength, application, end-use industry, and country.

Based on type, the Europe vertical cavity surface emitting laser market is segmented into single mode and multi-mode. The single mode segment held a larger share of the Europe vertical cavity surface emitting laser market in 2023.

Based on material, the Europe vertical cavity surface emitting laser market is segmented into Gallium Arsenide (GAAS), Indium Phosphide (INP), others. The Gallium Arsenide (GAAS) segment held the largest share of the Europe vertical cavity surface emitting laser market in 2023.

Based on data rate, the Europe vertical cavity surface emitting laser market is segmented into Up to 10 GBPS, 10.1 to 25 GBPS, and Above 25 GBPS. The above 25 GBPS segment held the largest share of the Europe vertical cavity surface emitting laser market in 2023.

Based on wavelength, the Europe vertical cavity surface emitting laser market is

segmented into Red, Near Infrared (NIR), and Short-Wave Infrared (SWIR). The red segment held the largest share of the Europe vertical cavity surface emitting laser market in 2023.

Based on application, the Europe vertical cavity surface emitting laser market is segmented into sensing, data communication, industrial heating & printing, and others. The sensing segment held the largest share of the Europe vertical cavity surface emitting laser market in 2023.

Based on end-use industry, the Europe vertical cavity surface emitting laser market is segmented into mobile & consumer, telecom & infrastructure, industrial, defense & aerospace, medical, and automotive & mobility. The mobile & consumer segment held the largest share of the Europe vertical cavity surface emitting laser market in 2023.

Based on country, the Europe vertical cavity surface emitting laser market is segmented into Germany, the UK, France, Italy, Russia, and the Rest of Europe. Germany dominated the share of the Europe vertical cavity surface emitting laser market in 2023. ams-OSRAM AG; Broadcom Inc; Coherent Corp; Hamamatsu Photonics KK; IQE Plc; Leonardo SpA; Lumentum Holdings Inc; TRUMPF SE + Co KG; and VERTILAS GmbH are the leading companies operating in the Europe vertical cavity surface emitting laser market.

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