

South America 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 South America vertical cavity surface emitting laser market is expected to grow from US\$ 47.67 million in 2023 to US\$ 94.83 million by 2030. It is estimated to grow at a CAGR of 10.3% from 2023 to 2030.

Emerging Telecommunication Industry Fuel South America 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 South America VCSEL market growth.

South America Vertical Cavity Surface Emitting Laser (VCSEL) Market Overview

The South America VCSEL market is segmented into Brazil, Argentina, and the Rest of South America. The number of data centers is increasing significantly in the region. For instance, in March 2023, Eveo, the Brazil-based colocation firm, launched a new data center in Paran?, Brazil. Similarly, in January 2020, Imperva established a new data center in Argentina. Moreover, per the International Trade Administration (ITA), in March 2023, Brazil witnessed a rise in investments in the development of data centers, contributing to the launch of new data centers. Data centers use VCSEL technologies for developing optical links to achieve high-speed data transmission. VCSEL is a reliable key component in low-cost multimode fiber optic interconnects; this factor is propelling the need to launch new data centers in the region.

South America Vertical Cavity Surface Emitting Laser (VCSEL) Market Revenue and Forecast to 2030 (US\$ Million)

South America Vertical Cavity Surface Emitting Laser (VCSEL) Market Segmentation

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

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

Based on material, the South America 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 South America vertical cavity surface emitting laser market in 2023.

Based on data rate, the South America 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 South America vertical cavity surface emitting laser market in 2023.

Based on wavelength, the South America 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 South America vertical cavity surface emitting laser market in 2023.

Based on application, the South America 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 South America vertical cavity surface emitting laser market in 2023.

Based on end-use industry, the South America 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 South America vertical cavity surface emitting laser market in 2023.

Based on country, the South America vertical cavity surface emitting laser market is segmented into Brazil, Argentina, and the Rest of South America. The Rest of South America dominated the share of the South America vertical cavity surface emitting laser market in 2023.

ams-OSRAM AG; Broadcom Inc; Hamamatsu Photonics KK; Leonardo SpA; and TRUMPF SE + Co KG are the leading companies operating in the South America vertical cavity surface emitting laser market.

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