

Semiconductor Lasers Market: Driving Innovation in Optical Communications and Sensing Applications

Semiconductor Lasers Market Growth and Business Opportunities in Coming Years: AMR Study

WILMINGTON, DE, UNITED STATES, September 18, 2024 / EINPresswire.com/ -- Allied Market Research, titled, Global [Semiconductor Lasers Market](#) by Type and End User Application: Opportunity Analysis and Industry Forecast, 2014-2022, the semiconductor lasers market is expected to reach \$8.9 billion by 2022 from \$5.5 billion in 2015, growing at a CAGR of 6.9% during the forecast period. In 2015, Asia-Pacific dominated the overall market with over 38% share and is anticipated to continue this trend during the forecast period.



Semiconductor Lasers Market Size

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The semiconductor lasers market is poised for rapid growth, driven by rising demand in defense, healthcare, and display applications, as well as the entry of new competitors with innovative products.”

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The semiconductor laser is a type of solid-state laser light-producing device that differs from conventional lasers based on the mechanism used for light amplification. In a semiconductor laser, the active semiconductor components are used for amplifying the light which enables it to have compact size. In addition, it requires less power and is more efficient as compared to conventional lasers.

The rise in demand for semiconductor lasers in the

defense sector, increased usage in the medical sector, dedicated assembly, and low tolerance for packaging errors fuel the market. However, the market growth is largely restrained by reliability issues and complexities in testing processes. However, an increase in demand for data storage where semiconductor lasers are used opens new opportunities for the players.

In 2015, fiber optic laser (FOL) contributed over 40% market share largest in terms of revenue. FOL serves analog and digital fiber communications, radio frequency links, and research applications. The laser allows a link length of over 30km and does not require any amplifiers or signal distribution to multiple receivers as the power levels in lasers are higher than the conventional signal sources. However, green laser is anticipated to grow at a faster CAGR of 8.34% during the forecast period.

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By end-user application, the communication segment held over 30% revenue share and dominated the semiconductor lasers market in 2015. Green lasers can be used for various roles such as pointing devices. Its ability to form a line in the dark has led to its usage as a rescue lights as it can be seen from miles. In addition, it has been used for laser light shows and sky gazing as a person can pinpoint a star by using the green laser. It can also be used as a laser pointer for guns and rifles.

By geography, Asia-Pacific dominated the global semiconductor lasers market with over 35% share in overall revenue; followed by North America, Europe, and LAMEA. Furthermore, it is anticipated to grow at the highest CAGR of 8.2% during the forecast period.

Key findings of the report include:

- The fiber optic laser segment dominated the market in 2015, with over 45% of market share. However, green laser and HPDL are expected to grow at a higher CAGR of 8.3%, during the forecast period.
- The communication application segment accounted for over 32% of the market in 2015.
- LAMEA is anticipated to be among one of the fast-growing regions owing to the presence of a rapidly growing automotive industry.
- Asia-Pacific dominated the market in 2015 due surge in demand for semiconductor lasers in China, South Korea, and Japan.

The major players profiled in the report include Alcatel-Lucent, Avago Technologies, Coherent, Cree, Hamamatsu Photonics, Nichia, Sharp, Sony, and others. The report also provides a detailed analysis of the market structure, including the competitive landscape, key players, and their market share. The report also provides a detailed analysis of the market structure, including the competitive landscape, key players, and their market share.

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