

Global Automotive LiDAR Driver Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive LiDAR Driver market size was valued at US\$ 1158 million in 2025 and is forecast to a readjusted size of US\$ 2444 million by 2032 with a CAGR of 11.2% during review period.

In 2025, the global annual production capacity of automotive LiDAR drivers was approximately 3 million units, while actual production reached about 2.5 million units. The global average price was approximately USD 450 per unit, with gross profit margins among major manufacturers ranging from 30% to 50%. An automotive LiDAR driver is an electronic control unit that regulates the laser emission, scanning mechanism, and signal acquisition of LiDAR sensors used in advanced driver-assistance systems (ADAS) and autonomous vehicles. It ensures high-precision ranging, stable operation, and safety compliance.

The upstream of the automotive LiDAR driver industry includes semiconductor chips, power management ICs, PCB boards, connectors, and cooling solutions, which are critical for signal integrity and thermal management. Midstream manufacturers, primarily in China, the US, Germany, and Japan, focus on driver design, PCB assembly, testing, and integration with LiDAR modules. Downstream applications cover ADAS modules, autonomous vehicle platforms, automotive OEMs, and aftermarket LiDAR retrofit systems. End users prioritize reliability, electromagnetic compatibility, temperature tolerance, and integration with vehicle network systems.

The automotive LiDAR driver market is expanding rapidly due to the rising adoption of autonomous vehicles and advanced driver-assistance systems. Increased demand for

high-resolution, long-range LiDAR sensors drives the need for efficient, reliable drivers capable of handling high-frequency laser pulses. Technological trends include integrated power management, low-latency signal processing, and enhanced thermal stability. Manufacturers are investing in miniaturization, cost reduction, and automotive-grade compliance. As the market matures, competition is expected to intensify, with differentiation based on precision, reliability, and integration capabilities.

This report is a detailed and comprehensive analysis for global Automotive LiDAR Driver market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive LiDAR Driver market size and forecasts, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Set), 2021-2032

Global Automotive LiDAR Driver market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Set), 2021-2032

Global Automotive LiDAR Driver market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Set), 2021-2032

Global Automotive LiDAR Driver market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sets), and ASP (US\$/Set), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive LiDAR Driver

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive LiDAR Driver market based on the following parameters - company overview, sales quantity, revenue, price, gross

margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Texas Instruments Inc., Analog Devices Inc., ON Semiconductor Corporation, STMicroelectronics N.V., NXP Semiconductors N.V., Infineon Technologies AG, ROHM Semiconductor, Renesas Electronics Corporation, Maxim Integrated, Melexis NV, etc.

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

Market Segmentation

Automotive LiDAR Driver market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Mechanical LiDAR Driver

Solid-State LiDAR Driver

MEMS LiDAR Driver

Market segment by Output Mode

Pulsed LiDAR Driver

Continuous Wave LiDAR Driver

Market segment by Application

ADAS

Autonomous Vehicles

Collision Avoidance

Parking Assistance

Others

Major players covered

Texas Instruments Inc.

Analog Devices Inc.

ON Semiconductor Corporation

STMicroelectronics N.V.

NXP Semiconductors N.V.

Infineon Technologies AG

ROHM Semiconductor

Renesas Electronics Corporation

Maxim Integrated

Melexis NV

ams-OSRAM AG

Broadcom Inc.

Lumentum Holdings Inc.

Hamamatsu Photonics K.K.

Velodyne Lidar, Inc.

Luminar Technologies, Inc.

Innoviz Technologies Ltd.

Ouster, Inc.

Quanergy Systems, Inc.

First Sensor AG

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive LiDAR Driver product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive LiDAR Driver, with price, sales quantity, revenue, and global market share of Automotive LiDAR Driver from 2021 to 2026.

Chapter 3, the Automotive LiDAR Driver competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive LiDAR Driver breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive LiDAR Driver market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive LiDAR Driver.

Chapter 14 and 15, to describe Automotive LiDAR Driver sales channel, distributors, customers, research findings and conclusion.

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