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Global Automotive Solid-state LiDAR Silicon Photonic Chip Market Growth 2026-2032

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Abstracts

The global Automotive Solid-state LiDAR Silicon Photonic Chip market size is predicted to grow from US$ 105 million in 2025 to US$ 290 million in 2032; it is expected to grow at a CAGR of 16.0% from 2026 to 2032.

Automotive Solid-State LiDAR Silicon Photonic Chip is a key component used in solid-state LiDAR systems and is manufactured based on silicon photonics technology. Compared with traditional mechanical LiDAR, solid-state LiDAR has no mechanical moving parts and uses silicon photonic chips to transmit and receive laser signals to achieve high-precision environmental perception. This type of chip is of great significance in applications such as autonomous driving and smart cars.

United States market for Automotive Solid-state LiDAR Silicon Photonic Chip 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 Automotive Solid-state LiDAR Silicon Photonic Chip 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 Automotive Solid-state LiDAR Silicon Photonic Chip is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automotive Solid-state LiDAR Silicon Photonic Chip players cover Tower Semiconductor, Intel, Mobileye, Scantinel, LuminWave, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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LP Information, Inc. (LPI) ' newest research report, the ?Automotive Solid-state LiDAR Silicon Photonic Chip Industry Forecast? looks at past sales and reviews total world Automotive Solid-state LiDAR Silicon Photonic Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive Solid-state LiDAR Silicon Photonic Chip sales for 2026 through 2032. With Automotive Solid-state LiDAR Silicon Photonic Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Automotive Solid-state LiDAR Silicon Photonic Chip industry.

This Insight Report provides a comprehensive analysis of the global Automotive Solid-state LiDAR Silicon Photonic Chip 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 Automotive Solid-state LiDAR Silicon Photonic Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Automotive Solid-state LiDAR Silicon Photonic Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Solid-state LiDAR Silicon Photonic Chip 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 Automotive Solid-state LiDAR Silicon Photonic Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Solid-state LiDAR Silicon Photonic Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

FMCW LiDAR Chip

OPA LiDAR Chip

Others

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Segmentation by Application:

- Sedan
- SUV

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

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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.

Tower Semiconductor

Intel

Mobileye

Scantinel

LuminWave

Guo Ke Guang Xin (Haining) Technology

Yangzhou Qunfa

Shanghai Xihe

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Solid-state LiDAR Silicon Photonic Chip market?

What factors are driving Automotive Solid-state LiDAR Silicon Photonic Chip market growth, globally and by region?

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

How do Automotive Solid-state LiDAR Silicon Photonic Chip market opportunities vary by end market size?

How does Automotive Solid-state LiDAR Silicon Photonic Chip break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Automotive Solid-state LiDAR Silicon Photonic Chip by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Automotive Solid-state LiDAR Silicon Photonic Chip by Country/Region, 2021, 2025 & 2032
2.2 Automotive Solid-state LiDAR Silicon Photonic Chip Segment by Type
  2.2.1 FMCW LiDAR Chip
  2.2.2 OPA LiDAR Chip
  2.2.3 Others
  2.2.4 Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type
    2.2.4.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale Price by Type (2021-2026)
2.3 Automotive Solid-state LiDAR Silicon Photonic Chip Segment by Application
  2.3.1 Sedan
  2.3.2 SUV
  2.3.3 Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Application
    2.3.3.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale Market Share by Application (2021-2026)

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2.3.3.2 Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue and Market Share by Application (2021-2026)
2.3.3.3 Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Breakdown Data by Company
3.1.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Annual Sales by Company (2021-2026)
3.1.2 Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Company (2021-2026)
3.2 Global Automotive Solid-state LiDAR Silicon Photonic Chip Annual Revenue by Company (2021-2026)
3.2.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Company (2021-2026)
3.2.2 Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Company (2021-2026)
3.3 Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale Price by Company
3.4 Key Manufacturers Automotive Solid-state LiDAR Silicon Photonic Chip Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Automotive Solid-state LiDAR Silicon Photonic Chip Product Location Distribution
3.4.2 Players Automotive Solid-state LiDAR Silicon Photonic Chip Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AUTOMOTIVE SOLID-STATE LIDAR SILICON PHOTONIC CHIP BY GEOGRAPHIC REGION

4.1 World Historic Automotive Solid-state LiDAR Silicon Photonic Chip Market Size by Geographic Region (2021-2026)
4.1.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Automotive Solid-state LiDAR Silicon Photonic Chip Annual Revenue by

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Geographic Region (2021-2026)
4.2 World Historic Automotive Solid-state LiDAR Silicon Photonic Chip Market Size by Country/Region (2021-2026)
4.2.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Annual Sales by Country/Region (2021-2026)
4.2.2 Global Automotive Solid-state LiDAR Silicon Photonic Chip Annual Revenue by Country/Region (2021-2026)
4.3 Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales Growth
4.4 APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales Growth
4.5 Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales Growth
4.6 Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales Growth

5 AMERICAS

5.1 Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Country
5.1.1 Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Country (2021-2026)
5.1.2 Americas Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Country (2021-2026)
5.2 Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type (2021-2026)
5.3 Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Region
6.1.1 APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Region (2021-2026)
6.1.2 APAC Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Region (2021-2026)
6.2 APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type (2021-2026)
6.3 APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Application

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(2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Automotive Solid-state LiDAR Silicon Photonic Chip by Country
  7.1.1 Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Country (2021-2026)
  7.1.2 Europe Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Country (2021-2026)
7.2 Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type (2021-2026)
7.3 Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip by Country
  8.1.1 Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Country (2021-2026)
8.2 Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type (2021-2026)
8.3 Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa

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info@marketpublishers.com

8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Automotive Solid-state LiDAR Silicon Photonic Chip
10.3 Manufacturing Process Analysis of Automotive Solid-state LiDAR Silicon Photonic Chip
10.4 Industry Chain Structure of Automotive Solid-state LiDAR Silicon Photonic Chip

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Automotive Solid-state LiDAR Silicon Photonic Chip Distributors
11.3 Automotive Solid-state LiDAR Silicon Photonic Chip Customer

12 WORLD FORECAST REVIEW FOR AUTOMOTIVE SOLID-STATE LIDAR SILICON PHOTONIC CHIP BY GEOGRAPHIC REGION

12.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Market Size Forecast by Region
  12.1.1 Global Automotive Solid-state LiDAR Silicon Photonic Chip Forecast by Region (2027-2032)
  12.1.2 Global Automotive Solid-state LiDAR Silicon Photonic Chip Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)

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12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Automotive Solid-state LiDAR Silicon Photonic Chip Forecast by Type (2027-2032)
12.7 Global Automotive Solid-state LiDAR Silicon Photonic Chip Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Tower Semiconductor
  13.1.1 Tower Semiconductor Company Information
  13.1.2 Tower Semiconductor Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
  13.1.3 Tower Semiconductor Automotive Solid-state LiDAR Silicon Photonic Chip Sales, Revenue, Price and Gross Margin (2021-2026)
  13.1.4 Tower Semiconductor Main Business Overview
  13.1.5 Tower Semiconductor Latest Developments
13.2 Intel
  13.2.1 Intel Company Information
  13.2.2 Intel Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
  13.2.3 Intel Automotive Solid-state LiDAR Silicon Photonic Chip Sales, Revenue, Price and Gross Margin (2021-2026)
  13.2.4 Intel Main Business Overview
  13.2.5 Intel Latest Developments
13.3 Mobileye
  13.3.1 Mobileye Company Information
  13.3.2 Mobileye Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
  13.3.3 Mobileye Automotive Solid-state LiDAR Silicon Photonic Chip Sales, Revenue, Price and Gross Margin (2021-2026)
  13.3.4 Mobileye Main Business Overview
  13.3.5 Mobileye Latest Developments
13.4 Scantinel
  13.4.1 Scantinel Company Information
  13.4.2 Scantinel Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
  13.4.3 Scantinel Automotive Solid-state LiDAR Silicon Photonic Chip Sales, Revenue, Price and Gross Margin (2021-2026)
  13.4.4 Scantinel Main Business Overview

+357 96 030922
info@marketpublishers.com

13.4.5 Scantinel Latest Developments
13.5 LuminWave
13.5.1 LuminWave Company Information
13.5.2 LuminWave Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
13.5.3 LuminWave Automotive Solid-state LiDAR Silicon Photonic Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 LuminWave Main Business Overview
13.5.5 LuminWave Latest Developments
13.6 Guo Ke Guang Xin (Haining) Technology
13.6.1 Guo Ke Guang Xin (Haining) Technology Company Information
13.6.2 Guo Ke Guang Xin (Haining) Technology Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
13.6.3 Guo Ke Guang Xin (Haining) Technology Automotive Solid-state LiDAR Silicon Photonic Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Guo Ke Guang Xin (Haining) Technology Main Business Overview
13.6.5 Guo Ke Guang Xin (Haining) Technology Latest Developments
13.7 Yangzhou Qunfa
13.7.1 Yangzhou Qunfa Company Information
13.7.2 Yangzhou Qunfa Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
13.7.3 Yangzhou Qunfa Automotive Solid-state LiDAR Silicon Photonic Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Yangzhou Qunfa Main Business Overview
13.7.5 Yangzhou Qunfa Latest Developments
13.8 Shanghai Xihe
13.8.1 Shanghai Xihe Company Information
13.8.2 Shanghai Xihe Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
13.8.3 Shanghai Xihe Automotive Solid-state LiDAR Silicon Photonic Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Shanghai Xihe Main Business Overview
13.8.5 Shanghai Xihe Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Automotive Solid-state LiDAR Silicon Photonic Chip Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Automotive Solid-state LiDAR Silicon Photonic Chip Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of FMCW LiDAR Chip
Table 4. Major Players of OPA LiDAR Chip
Table 5. Major Players of Others
Table 6. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type (2021-2026) & (K Units)
Table 7. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Type (2021-2026)
Table 8. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Type (2021-2026) & ($ million)
Table 9. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Type (2021-2026)
Table 10. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale by Application (2021-2026) & (K Units)
Table 12. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale Market Share by Application (2021-2026)
Table 13. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Application (2021-2026) & ($ million)
Table 14. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Application (2021-2026)
Table 15. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale Price by Application (2021-2026) & (US$/Unit)
Table 16. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Company (2021-2026) & (K Units)
Table 17. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Company (2021-2026)
Table 18. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Company (2021-2026) & ($ millions)
Table 19. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Company (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 20. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale Price by Company (2021-2026) & (US$/Unit)
Table 21. Key Manufacturers Automotive Solid-state LiDAR Silicon Photonic Chip Producing Area Distribution and Sales Area
Table 22. Players Automotive Solid-state LiDAR Silicon Photonic Chip Products Offered
Table 23. Automotive Solid-state LiDAR Silicon Photonic Chip Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 24. New Products and Potential Entrants
Table 25. Market M&A Activity & Strategy
Table 26. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Geographic Region (2021-2026) & (K Units)
Table 27. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share Geographic Region (2021-2026)
Table 28. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Geographic Region (2021-2026) & ($ millions)
Table 29. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Geographic Region (2021-2026)
Table 30. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Country/Region (2021-2026) & (K Units)
Table 31. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Country/Region (2021-2026)
Table 32. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Country/Region (2021-2026) & ($ millions)
Table 33. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Country/Region (2021-2026)
Table 34. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Country (2021-2026) & (K Units)
Table 35. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Country (2021-2026)
Table 36. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Country (2021-2026) & ($ millions)
Table 37. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type (2021-2026) & (K Units)
Table 38. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Application (2021-2026) & (K Units)
Table 39. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Region (2021-2026) & (K Units)
Table 40. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Region (2021-2026)

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Table 41. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Region (2021-2026) & ($ millions)
Table 42. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type (2021-2026) & (K Units)
Table 43. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Application (2021-2026) & (K Units)
Table 44. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Country (2021-2026) & (K Units)
Table 45. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Country (2021-2026) & ($ millions)
Table 46. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type (2021-2026) & (K Units)
Table 47. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Application (2021-2026) & (K Units)
Table 48. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Country (2021-2026) & (K Units)
Table 49. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Country (2021-2026)
Table 50. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Type (2021-2026) & (K Units)
Table 51. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Application (2021-2026) & (K Units)
Table 52. Key Market Drivers & Growth Opportunities of Automotive Solid-state LiDAR Silicon Photonic Chip
Table 53. Key Market Challenges & Risks of Automotive Solid-state LiDAR Silicon Photonic Chip
Table 54. Key Industry Trends of Automotive Solid-state LiDAR Silicon Photonic Chip
Table 55. Automotive Solid-state LiDAR Silicon Photonic Chip Raw Material
Table 56. Key Suppliers of Raw Materials
Table 57. Automotive Solid-state LiDAR Silicon Photonic Chip Distributors List
Table 58. Automotive Solid-state LiDAR Silicon Photonic Chip Customer List
Table 59. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Forecast by Region (2027-2032) & (K Units)
Table 60. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Forecast by Region (2027-2032) & ($ millions)
Table 61. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales Forecast by Country (2027-2032) & (K Units)
Table 62. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Annual Revenue Forecast by Country (2027-2032) & ($ millions)

+357 96 030922
info@marketpublishers.com

Table 63. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales Forecast by Region (2027-2032) & (K Units)
Table 64. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 65. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales Forecast by Country (2027-2032) & (K Units)
Table 66. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Forecast by Country (2027-2032) & ($ millions)
Table 67. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales Forecast by Country (2027-2032) & (K Units)
Table 68. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Forecast by Country (2027-2032) & ($ millions)
Table 69. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Forecast by Type (2027-2032) & (K Units)
Table 70. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Forecast by Type (2027-2032) & ($ millions)
Table 71. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Forecast by Application (2027-2032) & (K Units)
Table 72. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Forecast by Application (2027-2032) & ($ millions)
Table 73. Tower Semiconductor Basic Information, Automotive Solid-state LiDAR Silicon Photonic Chip Manufacturing Base, Sales Area and Its Competitors
Table 74. Tower Semiconductor Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
Table 75. Tower Semiconductor Automotive Solid-state LiDAR Silicon Photonic Chip Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 76. Tower Semiconductor Main Business
Table 77. Tower Semiconductor Latest Developments
Table 78. Intel Basic Information, Automotive Solid-state LiDAR Silicon Photonic Chip Manufacturing Base, Sales Area and Its Competitors
Table 79. Intel Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
Table 80. Intel Automotive Solid-state LiDAR Silicon Photonic Chip Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 81. Intel Main Business
Table 82. Intel Latest Developments
Table 83. Mobileye Basic Information, Automotive Solid-state LiDAR Silicon Photonic Chip Manufacturing Base, Sales Area and Its Competitors
Table 84. Mobileye Automotive Solid-state LiDAR Silicon Photonic Chip Product

+357 96 030922
info@marketpublishers.com

Portfolios and Specifications
Table 85. Mobileye Automotive Solid-state LiDAR Silicon Photonic Chip Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 86. Mobileye Main Business
Table 87. Mobileye Latest Developments
Table 88. Scantinel Basic Information, Automotive Solid-state LiDAR Silicon Photonic Chip Manufacturing Base, Sales Area and Its Competitors
Table 89. Scantinel Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
Table 90. Scantinel Automotive Solid-state LiDAR Silicon Photonic Chip Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 91. Scantinel Main Business
Table 92. Scantinel Latest Developments
Table 93. LuminWave Basic Information, Automotive Solid-state LiDAR Silicon Photonic Chip Manufacturing Base, Sales Area and Its Competitors
Table 94. LuminWave Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
Table 95. LuminWave Automotive Solid-state LiDAR Silicon Photonic Chip Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 96. LuminWave Main Business
Table 97. LuminWave Latest Developments
Table 98. Guo Ke Guang Xin (Haining) Technology Basic Information, Automotive Solid-state LiDAR Silicon Photonic Chip Manufacturing Base, Sales Area and Its Competitors
Table 99. Guo Ke Guang Xin (Haining) Technology Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
Table 100. Guo Ke Guang Xin (Haining) Technology Automotive Solid-state LiDAR Silicon Photonic Chip Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 101. Guo Ke Guang Xin (Haining) Technology Main Business
Table 102. Guo Ke Guang Xin (Haining) Technology Latest Developments
Table 103. Yangzhou Qunfa Basic Information, Automotive Solid-state LiDAR Silicon Photonic Chip Manufacturing Base, Sales Area and Its Competitors
Table 104. Yangzhou Qunfa Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
Table 105. Yangzhou Qunfa Automotive Solid-state LiDAR Silicon Photonic Chip Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 106. Yangzhou Qunfa Main Business
Table 107. Yangzhou Qunfa Latest Developments
Table 108. Shanghai Xihe Basic Information, Automotive Solid-state LiDAR Silicon

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Photonic Chip Manufacturing Base, Sales Area and Its Competitors
Table 109. Shanghai Xihe Automotive Solid-state LiDAR Silicon Photonic Chip Product Portfolios and Specifications
Table 110. Shanghai Xihe Automotive Solid-state LiDAR Silicon Photonic Chip Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 111. Shanghai Xihe Main Business
Table 112. Shanghai Xihe Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Automotive Solid-state LiDAR Silicon Photonic Chip
Figure 2. Automotive Solid-state LiDAR Silicon Photonic Chip Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Country/Region (2025)
Figure 10. Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of FMCW LiDAR Chip
Figure 12. Product Picture of OPA LiDAR Chip
Figure 13. Product Picture of Others
Figure 14. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Type in 2026
Figure 15. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Type (2021-2026)
Figure 16. Automotive Solid-state LiDAR Silicon Photonic Chip Consumed in Sedan
Figure 17. Global Automotive Solid-state LiDAR Silicon Photonic Chip Market: Sedan (2021-2026) & (K Units)
Figure 18. Automotive Solid-state LiDAR Silicon Photonic Chip Consumed in SUV
Figure 19. Global Automotive Solid-state LiDAR Silicon Photonic Chip Market: SUV (2021-2026) & (K Units)
Figure 20. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sale Market Share by Application (2025)
Figure 21. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Application in 2026
Figure 22. Automotive Solid-state LiDAR Silicon Photonic Chip Sales by Company in 2026 (K Units)
Figure 23. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market

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Share by Company in 2026
Figure 24. Automotive Solid-state LiDAR Silicon Photonic Chip Revenue by Company in 2026 ($ millions)
Figure 25. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Company in 2026
Figure 26. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Geographic Region (2021-2026)
Figure 27. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Geographic Region in 2026
Figure 28. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales 2021-2026 (K Units)
Figure 29. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Revenue 2021-2026 ($ millions)
Figure 30. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales 2021-2026 (K Units)
Figure 31. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Revenue 2021-2026 ($ millions)
Figure 32. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales 2021-2026 (K Units)
Figure 33. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Revenue 2021-2026 ($ millions)
Figure 34. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales 2021-2026 (K Units)
Figure 35. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Revenue 2021-2026 ($ millions)
Figure 36. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Country in 2026
Figure 37. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Country (2021-2026)
Figure 38. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Type (2021-2026)
Figure 39. Americas Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Application (2021-2026)
Figure 40. United States Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 41. Canada Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 42. Mexico Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)

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Figure 43. Brazil Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 44. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Region in 2026
Figure 45. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Region (2021-2026)
Figure 46. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Type (2021-2026)
Figure 47. APAC Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Application (2021-2026)
Figure 48. China Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 49. Japan Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 50. South Korea Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 51. Southeast Asia Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 52. India Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 53. Australia Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 54. China Taiwan Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 55. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Country in 2026
Figure 56. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share by Country (2021-2026)
Figure 57. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Type (2021-2026)
Figure 58. Europe Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Application (2021-2026)
Figure 59. Germany Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 60. France Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 61. UK Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 62. Italy Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth

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2021-2026 ($ millions)
Figure 63. Russia Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 64. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Country (2021-2026)
Figure 65. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Type (2021-2026)
Figure 66. Middle East & Africa Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share by Application (2021-2026)
Figure 67. Egypt Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 68. South Africa Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 69. Israel Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 70. Turkey Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 71. GCC Countries Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Growth 2021-2026 ($ millions)
Figure 72. Manufacturing Cost Structure Analysis of Automotive Solid-state LiDAR Silicon Photonic Chip in 2026
Figure 73. Manufacturing Process Analysis of Automotive Solid-state LiDAR Silicon Photonic Chip
Figure 74. Industry Chain Structure of Automotive Solid-state LiDAR Silicon Photonic Chip
Figure 75. Channels of Distribution
Figure 76. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Forecast by Region (2027-2032)
Figure 77. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share Forecast by Region (2027-2032)
Figure 78. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share Forecast by Type (2027-2032)
Figure 79. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share Forecast by Type (2027-2032)
Figure 80. Global Automotive Solid-state LiDAR Silicon Photonic Chip Sales Market Share Forecast by Application (2027-2032)
Figure 81. Global Automotive Solid-state LiDAR Silicon Photonic Chip Revenue Market Share Forecast by Application (2027-2032)

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