

Global Solid-State Radar Transmitters Market Research Report 2026(Status and Outlook)

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Abstracts

?Radar solid-state transmitter? is a radar transmitter that uses solid-state electronic components. It makes a solid-state high-power amplifier module by combining the output power of multiple high-power transistors in parallel. The main advantages of solid-state transmitters include high reliability, low power consumption, high efficiency and modular design. Early solid-state radar transmitters mainly worked in the shortwave, VHF and UHF bands. With the advancement of technology, the operating frequency has gradually expanded to C-band, X-band, and even millimeter-wave bands. As the design level and manufacturing technology of microwave power transistors continue to improve, solid-state transmitters have shown great development potential.

The global Solid-State Radar Transmitters market size was estimated at USD 1125.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Solid-State Radar Transmitters market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Solid-

State Radar Transmitters market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Solid-State Radar Transmitters market.

Global Solid-State Radar Transmitters Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

L3Harris
Northrop Grumman
RTX
Collins Aerospace
Thales
RFHIC
Elbit Systems
Vaisala
BTESA
CETI
Chengdu Tianjian Technology

Market Segmentation (by Type)

Space Synthesis
Centralized Synthesis

Market Segmentation (by Application)

Commercial
Military

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Solid-State Radar Transmitters Market
Overview of the regional outlook of the Solid-State Radar Transmitters Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Solid-State Radar Transmitters Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Solid-State Radar Transmitters, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Solid-State Radar Transmitters
- 1.2 Key Market Segments
 - 1.2.1 Solid-State Radar Transmitters Segment by Type
 - 1.2.2 Solid-State Radar Transmitters Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 SOLID-STATE RADAR TRANSMITTERS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Solid-State Radar Transmitters Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Solid-State Radar Transmitters Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 SOLID-STATE RADAR TRANSMITTERS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Solid-State Radar Transmitters Product Life Cycle
- 3.3 Global Solid-State Radar Transmitters Sales by Manufacturers (2020-2025)
- 3.4 Global Solid-State Radar Transmitters Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Solid-State Radar Transmitters Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Solid-State Radar Transmitters Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Solid-State Radar Transmitters Market Competitive Situation and Trends
 - 3.8.1 Solid-State Radar Transmitters Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Solid-State Radar Transmitters Players Market Share by

Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SOLID-STATE RADAR TRANSMITTERS INDUSTRY CHAIN ANALYSIS

4.1 Solid-State Radar Transmitters Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SOLID-STATE RADAR TRANSMITTERS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Solid-State Radar Transmitters Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Solid-State Radar Transmitters

Market

5.7 ESG Ratings of Leading Companies

6 SOLID-STATE RADAR TRANSMITTERS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Solid-State Radar Transmitters Sales Market Share by Type (2020-2025)

6.3 Global Solid-State Radar Transmitters Market Size by Type (2020-2025)

6.4 Global Solid-State Radar Transmitters Price by Type (2020-2025)

7 SOLID-STATE RADAR TRANSMITTERS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Solid-State Radar Transmitters Market Sales by Application (2020-2025)
- 7.3 Global Solid-State Radar Transmitters Market Size (M USD) by Application (2020-2025)
- 7.4 Global Solid-State Radar Transmitters Sales Growth Rate by Application (2020-2025)

8 SOLID-STATE RADAR TRANSMITTERS MARKET SALES BY REGION

- 8.1 Global Solid-State Radar Transmitters Sales by Region
 - 8.1.1 Global Solid-State Radar Transmitters Sales by Region
 - 8.1.2 Global Solid-State Radar Transmitters Sales Market Share by Region
- 8.2 Global Solid-State Radar Transmitters Market Size by Region
 - 8.2.1 Global Solid-State Radar Transmitters Market Size by Region
 - 8.2.2 Global Solid-State Radar Transmitters Market Size by Region
- 8.3 North America
 - 8.3.1 North America Solid-State Radar Transmitters Sales by Country
 - 8.3.2 North America Solid-State Radar Transmitters Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Solid-State Radar Transmitters Sales by Country
 - 8.4.2 Europe Solid-State Radar Transmitters Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Solid-State Radar Transmitters Sales by Region
 - 8.5.2 Asia Pacific Solid-State Radar Transmitters Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview

- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Solid-State Radar Transmitters Sales by Country
 - 8.6.2 South America Solid-State Radar Transmitters Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Solid-State Radar Transmitters Sales by Region
 - 8.7.2 Middle East and Africa Solid-State Radar Transmitters Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SOLID-STATE RADAR TRANSMITTERS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Solid-State Radar Transmitters by Region(2020-2025)
- 9.2 Global Solid-State Radar Transmitters Revenue Market Share by Region (2020-2025)
- 9.3 Global Solid-State Radar Transmitters Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Solid-State Radar Transmitters Production
 - 9.4.1 North America Solid-State Radar Transmitters Production Growth Rate (2020-2025)
 - 9.4.2 North America Solid-State Radar Transmitters Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Solid-State Radar Transmitters Production
 - 9.5.1 Europe Solid-State Radar Transmitters Production Growth Rate (2020-2025)
 - 9.5.2 Europe Solid-State Radar Transmitters Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Solid-State Radar Transmitters Production (2020-2025)
 - 9.6.1 Japan Solid-State Radar Transmitters Production Growth Rate (2020-2025)
 - 9.6.2 Japan Solid-State Radar Transmitters Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Solid-State Radar Transmitters Production (2020-2025)
 - 9.7.1 China Solid-State Radar Transmitters Production Growth Rate (2020-2025)

9.7.2 China Solid-State Radar Transmitters Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 L3Harris

- 10.1.1 L3Harris Basic Information
- 10.1.2 L3Harris Solid-State Radar Transmitters Product Overview
- 10.1.3 L3Harris Solid-State Radar Transmitters Product Market Performance
- 10.1.4 L3Harris Business Overview
- 10.1.5 L3Harris SWOT Analysis
- 10.1.6 L3Harris Recent Developments

10.2 Northrop Grumman

- 10.2.1 Northrop Grumman Basic Information
- 10.2.2 Northrop Grumman Solid-State Radar Transmitters Product Overview
- 10.2.3 Northrop Grumman Solid-State Radar Transmitters Product Market Performance
- 10.2.4 Northrop Grumman Business Overview
- 10.2.5 Northrop Grumman SWOT Analysis
- 10.2.6 Northrop Grumman Recent Developments

10.3 RTX

- 10.3.1 RTX Basic Information
- 10.3.2 RTX Solid-State Radar Transmitters Product Overview
- 10.3.3 RTX Solid-State Radar Transmitters Product Market Performance
- 10.3.4 RTX Business Overview
- 10.3.5 RTX SWOT Analysis
- 10.3.6 RTX Recent Developments

10.4 Collins Aerospace

- 10.4.1 Collins Aerospace Basic Information
- 10.4.2 Collins Aerospace Solid-State Radar Transmitters Product Overview
- 10.4.3 Collins Aerospace Solid-State Radar Transmitters Product Market Performance
- 10.4.4 Collins Aerospace Business Overview
- 10.4.5 Collins Aerospace Recent Developments

10.5 Thales

- 10.5.1 Thales Basic Information
- 10.5.2 Thales Solid-State Radar Transmitters Product Overview
- 10.5.3 Thales Solid-State Radar Transmitters Product Market Performance
- 10.5.4 Thales Business Overview
- 10.5.5 Thales Recent Developments

10.6 RFHIC

10.6.1 RFHIC Basic Information

10.6.2 RFHIC Solid-State Radar Transmitters Product Overview

10.6.3 RFHIC Solid-State Radar Transmitters Product Market Performance

10.6.4 RFHIC Business Overview

10.6.5 RFHIC Recent Developments

10.7 Elbit Systems

10.7.1 Elbit Systems Basic Information

10.7.2 Elbit Systems Solid-State Radar Transmitters Product Overview

10.7.3 Elbit Systems Solid-State Radar Transmitters Product Market Performance

10.7.4 Elbit Systems Business Overview

10.7.5 Elbit Systems Recent Developments

10.8 Vaisala

10.8.1 Vaisala Basic Information

10.8.2 Vaisala Solid-State Radar Transmitters Product Overview

10.8.3 Vaisala Solid-State Radar Transmitters Product Market Performance

10.8.4 Vaisala Business Overview

10.8.5 Vaisala Recent Developments

10.9 BTESA

10.9.1 BTESA Basic Information

10.9.2 BTESA Solid-State Radar Transmitters Product Overview

10.9.3 BTESA Solid-State Radar Transmitters Product Market Performance

10.9.4 BTESA Business Overview

10.9.5 BTESA Recent Developments

10.10 CETI

10.10.1 CETI Basic Information

10.10.2 CETI Solid-State Radar Transmitters Product Overview

10.10.3 CETI Solid-State Radar Transmitters Product Market Performance

10.10.4 CETI Business Overview

10.10.5 CETI Recent Developments

10.11 Chengdu Tianjian Technology

10.11.1 Chengdu Tianjian Technology Basic Information

10.11.2 Chengdu Tianjian Technology Solid-State Radar Transmitters Product Overview

10.11.3 Chengdu Tianjian Technology Solid-State Radar Transmitters Product Market Performance

10.11.4 Chengdu Tianjian Technology Business Overview

10.11.5 Chengdu Tianjian Technology Recent Developments

11 SOLID-STATE RADAR TRANSMITTERS MARKET FORECAST BY REGION

11.1 Global Solid-State Radar Transmitters Market Size Forecast

11.2 Global Solid-State Radar Transmitters Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Solid-State Radar Transmitters Market Size Forecast by Country

11.2.3 Asia Pacific Solid-State Radar Transmitters Market Size Forecast by Region

11.2.4 South America Solid-State Radar Transmitters Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Solid-State Radar Transmitters by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Solid-State Radar Transmitters Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Solid-State Radar Transmitters by Type (2026-2035)

12.1.2 Global Solid-State Radar Transmitters Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Solid-State Radar Transmitters by Type (2026-2035)

12.2 Global Solid-State Radar Transmitters Market Forecast by Application (2026-2035)

12.2.1 Global Solid-State Radar Transmitters Sales (K Units) Forecast by Application

12.2.2 Global Solid-State Radar Transmitters Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Solid-State Radar Transmitters Market Size by Type (M USD)

Table 4. Global Solid-State Radar Transmitters Market Size by Application

Table 5. Solid-State Radar Transmitters Market Size Comparison by Region (M USD)

Table 6. Global Solid-State Radar Transmitters Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Solid-State Radar Transmitters Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Solid-State Radar Transmitters Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Solid-State Radar Transmitters Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Solid-State Radar Transmitters as of 2025)

Table 11. Global Market Solid-State Radar Transmitters Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Solid-State Radar Transmitters Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Solid-State Radar Transmitters Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Solid-State Radar Transmitters Sales by Type (K Units)

Table 27. Global Solid-State Radar Transmitters Market Size by Type (M USD)

Table 28. Global Solid-State Radar Transmitters Sales (K Units) by Type (2020-2025)

Table 29. Global Solid-State Radar Transmitters Sales Market Share by Type (2020-2025)

Table 30. Global Solid-State Radar Transmitters Market Size (M USD) by Type (2020-2025)

Table 31. Global Solid-State Radar Transmitters Market Share by Type (2020-2025)

Table 32. Global Solid-State Radar Transmitters Price (USD/Unit) by Type (2020-2025)

Table 33. Global Solid-State Radar Transmitters Sales (K Units) by Application

Table 34. Global Solid-State Radar Transmitters Market Size by Application

Table 35. Global Solid-State Radar Transmitters Sales by Application (2020-2025) & (K Units)

Table 36. Global Solid-State Radar Transmitters Sales Market Share by Application (2020-2025)

Table 37. Global Solid-State Radar Transmitters Market Size by Application (2020-2025) & (M USD)

Table 38. Global Solid-State Radar Transmitters Market Share by Application (2020-2025)

Table 39. Global Solid-State Radar Transmitters Sales Growth Rate by Application (2020-2025)

Table 40. Global Solid-State Radar Transmitters Sales by Region (2020-2025) & (K Units)

Table 41. Global Solid-State Radar Transmitters Sales Market Share by Region (2020-2025)

Table 42. Global Solid-State Radar Transmitters Market Size by Region (2020-2025) & (M USD)

Table 43. Global Solid-State Radar Transmitters Market Size by Region (2020-2025)

Table 44. North America Solid-State Radar Transmitters Sales by Country (2020-2025) & (K Units)

Table 45. North America Solid-State Radar Transmitters Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Solid-State Radar Transmitters Sales by Country (2020-2025) & (K Units)

Table 47. Europe Solid-State Radar Transmitters Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Solid-State Radar Transmitters Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Solid-State Radar Transmitters Market Size by Region (2020-2025) & (M USD)

Table 50. South America Solid-State Radar Transmitters Sales by Country (2020-2025)

& (K Units)

Table 51. South America Solid-State Radar Transmitters Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Solid-State Radar Transmitters Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Solid-State Radar Transmitters Market Size by Region (2020-2025) & (M USD)

Table 54. Global Solid-State Radar Transmitters Production (K Units) by Region(2020-2025)

Table 55. Global Solid-State Radar Transmitters Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Solid-State Radar Transmitters Revenue Market Share by Region (2020-2025)

Table 57. Global Solid-State Radar Transmitters Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Solid-State Radar Transmitters Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Solid-State Radar Transmitters Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Solid-State Radar Transmitters Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Solid-State Radar Transmitters Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. L3Harris Basic Information

Table 63. L3Harris Solid-State Radar Transmitters Product Overview

Table 64. L3Harris Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. L3Harris Business Overview

Table 66. L3Harris SWOT Analysis

Table 67. L3Harris Recent Developments

Table 68. Northrop Grumman Basic Information

Table 69. Northrop Grumman Solid-State Radar Transmitters Product Overview

Table 70. Northrop Grumman Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Northrop Grumman Business Overview

Table 72. Northrop Grumman SWOT Analysis

Table 73. Northrop Grumman Recent Developments

Table 74. RTX Basic Information

Table 75. RTX Solid-State Radar Transmitters Product Overview

Table 76. RTX Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. RTX Business Overview

Table 78. RTX SWOT Analysis

Table 79. RTX Recent Developments

Table 80. Collins Aerospace Basic Information

Table 81. Collins Aerospace Solid-State Radar Transmitters Product Overview

Table 82. Collins Aerospace Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Collins Aerospace Business Overview

Table 84. Collins Aerospace Recent Developments

Table 85. Thales Basic Information

Table 86. Thales Solid-State Radar Transmitters Product Overview

Table 87. Thales Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Thales Business Overview

Table 89. Thales Recent Developments

Table 90. RFHIC Basic Information

Table 91. RFHIC Solid-State Radar Transmitters Product Overview

Table 92. RFHIC Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. RFHIC Business Overview

Table 94. RFHIC Recent Developments

Table 95. Elbit Systems Basic Information

Table 96. Elbit Systems Solid-State Radar Transmitters Product Overview

Table 97. Elbit Systems Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Elbit Systems Business Overview

Table 99. Elbit Systems Recent Developments

Table 100. Vaisala Basic Information

Table 101. Vaisala Solid-State Radar Transmitters Product Overview

Table 102. Vaisala Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Vaisala Business Overview

Table 104. Vaisala Recent Developments

Table 105. BTESA Basic Information

Table 106. BTESA Solid-State Radar Transmitters Product Overview

Table 107. BTESA Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. BTESA Business Overview

Table 109. BTESA Recent Developments

Table 110. CETI Basic Information

Table 111. CETI Solid-State Radar Transmitters Product Overview

Table 112. CETI Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. CETI Business Overview

Table 114. CETI Recent Developments

Table 115. Chengdu Tianjian Technology Basic Information

Table 116. Chengdu Tianjian Technology Solid-State Radar Transmitters Product Overview

Table 117. Chengdu Tianjian Technology Solid-State Radar Transmitters Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Chengdu Tianjian Technology Business Overview

Table 119. Chengdu Tianjian Technology Recent Developments

Table 120. Global Solid-State Radar Transmitters Sales Forecast by Region (2026-2035) & (K Units)

Table 121. Global Solid-State Radar Transmitters Market Size Forecast by Region (2026-2035) & (M USD)

Table 122. North America Solid-State Radar Transmitters Sales Forecast by Country (2026-2035) & (K Units)

Table 123. North America Solid-State Radar Transmitters Market Size Forecast by Country (2026-2035) & (M USD)

Table 124. Europe Solid-State Radar Transmitters Sales Forecast by Country (2026-2035) & (K Units)

Table 125. Europe Solid-State Radar Transmitters Market Size Forecast by Country (2026-2035) & (M USD)

Table 126. Asia Pacific Solid-State Radar Transmitters Sales Forecast by Region (2026-2035) & (K Units)

Table 127. Asia Pacific Solid-State Radar Transmitters Market Size Forecast by Region (2026-2035) & (M USD)

Table 128. South America Solid-State Radar Transmitters Sales Forecast by Country (2026-2035) & (K Units)

Table 129. South America Solid-State Radar Transmitters Market Size Forecast by Country (2026-2035) & (M USD)

Table 130. Middle East and Africa Solid-State Radar Transmitters Sales Forecast by Country (2026-2035) & (Units)

Table 131. Middle East and Africa Solid-State Radar Transmitters Market Size Forecast by Country (2026-2035) & (M USD)

Table 132. Global Solid-State Radar Transmitters Sales Forecast by Type (2026-2035) & (K Units)

Table 133. Global Solid-State Radar Transmitters Market Size Forecast by Type (2026-2035) & (M USD)

Table 134. Global Solid-State Radar Transmitters Price Forecast by Type (2026-2035) & (USD/Unit)

Table 135. Global Solid-State Radar Transmitters Sales (K Units) Forecast by Application (2026-2035)

Table 136. Global Solid-State Radar Transmitters Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Solid-State Radar Transmitters
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Solid-State Radar Transmitters Market Size (M USD), 2025-2035
- Figure 5. Global Solid-State Radar Transmitters Market Size (M USD) (2020-2035)
- Figure 6. Global Solid-State Radar Transmitters Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Solid-State Radar Transmitters Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Solid-State Radar Transmitters Product Life Cycle
- Figure 13. Solid-State Radar Transmitters Sales Share by Manufacturers in 2025
- Figure 14. Global Solid-State Radar Transmitters Revenue Share by Manufacturers in 2025
- Figure 15. Solid-State Radar Transmitters Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Solid-State Radar Transmitters Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Solid-State Radar Transmitters Revenue in 2025
- Figure 18. Industry Chain Map of Solid-State Radar Transmitters
- Figure 19. Global Solid-State Radar Transmitters Market PEST Analysis
- Figure 20. Global Solid-State Radar Transmitters Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Solid-State Radar Transmitters Market Share by Type
- Figure 27. Sales Market Share of Solid-State Radar Transmitters by Type (2020-2025)
- Figure 28. Sales Market Share of Solid-State Radar Transmitters by Type in 2025
- Figure 29. Market Share of Solid-State Radar Transmitters by Type (2020-2025)
- Figure 30. Market Share of Solid-State Radar Transmitters by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Solid-State Radar Transmitters Market Share by Application

Figure 33. Global Solid-State Radar Transmitters Sales Market Share by Application (2020-2025)

Figure 34. Global Solid-State Radar Transmitters Sales Market Share by Application in 2025

Figure 35. Global Solid-State Radar Transmitters Market Share by Application (2020-2025)

Figure 36. Global Solid-State Radar Transmitters Market Share by Application in 2025

Figure 37. Global Solid-State Radar Transmitters Sales Growth Rate by Application (2020-2025)

Figure 38. Global Solid-State Radar Transmitters Sales Market Share by Region (2020-2025)

Figure 39. Global Solid-State Radar Transmitters Market Size by Region (2020-2025)

Figure 40. North America Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Solid-State Radar Transmitters Sales Market Share by Country in 2024

Figure 43. North America Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Solid-State Radar Transmitters Market Size by Country in 2024

Figure 45. U.S. Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Solid-State Radar Transmitters Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Solid-State Radar Transmitters Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Solid-State Radar Transmitters Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Solid-State Radar Transmitters Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Solid-State Radar Transmitters Sales Market Share by Country in 2024

Figure 53. Europe Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Solid-State Radar Transmitters Market Size by Country in 2024

Figure 55. Germany Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Solid-State Radar Transmitters Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Solid-State Radar Transmitters Sales Market Share by Region in 2024

Figure 67. Asia Pacific Solid-State Radar Transmitters Market Size by Region in 2024

Figure 68. China Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Solid-State Radar Transmitters Sales and Growth Rate (K Units)

Figure 79. South America Solid-State Radar Transmitters Sales Market Share by Country in 2024

Figure 80. South America Solid-State Radar Transmitters Market Size and Growth Rate (M USD)

Figure 81. South America Solid-State Radar Transmitters Market Size by Country in 2024

Figure 82. Brazil Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Solid-State Radar Transmitters Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Solid-State Radar Transmitters Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Solid-State Radar Transmitters Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Solid-State Radar Transmitters Market Size by Region in 2024

Figure 92. Saudi Arabia Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Solid-State Radar Transmitters Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 94. UAE Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Solid-State Radar Transmitters Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Solid-State Radar Transmitters Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Solid-State Radar Transmitters Production Market Share by Region (2020-2025)

Figure 103. North America Solid-State Radar Transmitters Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Solid-State Radar Transmitters Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Solid-State Radar Transmitters Production (K Units) Growth Rate (2020-2025)

Figure 106. China Solid-State Radar Transmitters Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Solid-State Radar Transmitters Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Solid-State Radar Transmitters Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Solid-State Radar Transmitters Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Solid-State Radar Transmitters Market Share Forecast by Type (2026-2035)

Figure 111. Global Solid-State Radar Transmitters Sales Forecast by Application (2026-2035)

Figure 112. Global Solid-State Radar Transmitters Market Share Forecast by Application (2026-2035)

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