

# Global Terahertz Radar Chip Market Growth 2026-2032

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## Abstracts

The global Terahertz Radar Chip market size is predicted to grow from US\$ 382 million in 2025 to US\$ 1210 million in 2032; it is expected to grow at a CAGR of 18.3% from 2026 to 2032.

A Terahertz Radar Chip is a specialized semiconductor device that operates in the terahertz (THz) frequency range. These chips are used in radar systems to transmit and receive electromagnetic waves for sensing, imaging, and detection purposes. The terahertz frequency range lies between the microwave and infrared regions of the electromagnetic spectrum, offering high resolution and deep penetration capabilities, making these chips ideal for applications such as: 1. Autonomous vehicles: For precise object detection, obstacle avoidance, and environmental mapping. 2. Security and surveillance: For non-invasive scanning and detection of concealed objects. 3. Medical imaging: To capture detailed images of tissues or for early-stage cancer detection. 4. Industrial inspection: To analyze materials, detect defects, or inspect layers beneath surfaces.

Terahertz radar chips provide better resolution than traditional microwave-based radar systems and have potential in a wide range of industries, from automotive to healthcare.

Terahertz radar technology is an emerging field that operates in the terahertz frequency range, which lies between microwave and infrared radiation. Terahertz radar chips leverage this technology for various applications across multiple industries.

Advantages include: 1. Non-invasive and Non-destructive: Terahertz waves do not harm the materials being tested, making them ideal for sensitive applications. 2. High Resolution: The short wavelength of terahertz waves allows for high-resolution imaging, beneficial for various applications, from medical to industrial. 3. Versatility: These chips can be integrated into various systems, enhancing capabilities in existing technologies.

Challenges include 1. Cost and Complexity: The production of terahertz radar chips can be complex and expensive, which may limit widespread adoption. 2. Limited Range: Terahertz waves are susceptible to absorption by moisture and other environmental factors, which can limit their effective range. 3. Development of Integrated Circuits: Advancing the integration of terahertz components into compact, cost-effective circuits remains a technical challenge.

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

This Insight Report provides a comprehensive analysis of the global Terahertz Radar 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 Terahertz Radar Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Terahertz Radar Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Terahertz Radar 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 Terahertz Radar Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Terahertz Radar Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

120GHz

160GHz

240GHz

300GHz

Others

#### Segmentation by Application:

Automotive

Industrial Inspection

Medical Imaging

Security & Surveillance

Telecommunication

Others

#### 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

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.

NXP Semiconductors

Texas Instruments

Infineon Technologies

STMicroelectronics

Analog Devices

Indie Semiconductor

Luna Innovations

Zhuhai Microcreative

PAM-XIAMEN

ChinaSimba

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Terahertz Radar Chip market?

What factors are driving Terahertz Radar Chip market growth, globally and by region?

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

How do Terahertz Radar Chip market opportunities vary by end market size?

How does Terahertz Radar Chip break out by Type, by Application?

## 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 Terahertz Radar Chip Annual Sales 2021-2032
  - 2.1.2 World Current & Future Analysis for Terahertz Radar Chip by Geographic Region, 2021, 2025 & 2032
  - 2.1.3 World Current & Future Analysis for Terahertz Radar Chip by Country/Region, 2021, 2025 & 2032
- 2.2 Terahertz Radar Chip Segment by Type
  - 2.2.1 120GHz
  - 2.2.2 160GHz
  - 2.2.3 240GHz
  - 2.2.4 300GHz
  - 2.2.5 Others
  - 2.2.6 Terahertz Radar Chip Sales by Type
    - 2.2.6.1 Global Terahertz Radar Chip Sales Market Share by Type (2021-2026)
    - 2.2.6.2 Global Terahertz Radar Chip Revenue and Market Share by Type (2021-2026)
    - 2.2.6.3 Global Terahertz Radar Chip Sale Price by Type (2021-2026)
- 2.3 Terahertz Radar Chip Segment by Application
  - 2.3.1 Automotive
  - 2.3.2 Industrial Inspection
  - 2.3.3 Medical Imaging
  - 2.3.4 Security & Surveillance
  - 2.3.5 Telecommunication
  - 2.3.6 Others

### 2.3.7 Terahertz Radar Chip Sales by Application

#### 2.3.7.1 Global Terahertz Radar Chip Sale Market Share by Application (2021-2026)

#### 2.3.7.2 Global Terahertz Radar Chip Revenue and Market Share by Application (2021-2026)

#### 2.3.7.3 Global Terahertz Radar Chip Sale Price by Application (2021-2026)

## 3 GLOBAL BY COMPANY

### 3.1 Global Terahertz Radar Chip Breakdown Data by Company

#### 3.1.1 Global Terahertz Radar Chip Annual Sales by Company (2021-2026)

#### 3.1.2 Global Terahertz Radar Chip Sales Market Share by Company (2021-2026)

### 3.2 Global Terahertz Radar Chip Annual Revenue by Company (2021-2026)

#### 3.2.1 Global Terahertz Radar Chip Revenue by Company (2021-2026)

#### 3.2.2 Global Terahertz Radar Chip Revenue Market Share by Company (2021-2026)

### 3.3 Global Terahertz Radar Chip Sale Price by Company

### 3.4 Key Manufacturers Terahertz Radar Chip Producing Area Distribution, Sales Area, Product Type

#### 3.4.1 Key Manufacturers Terahertz Radar Chip Product Location Distribution

#### 3.4.2 Players Terahertz Radar 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 TERAHERTZ RADAR CHIP BY GEOGRAPHIC REGION

### 4.1 World Historic Terahertz Radar Chip Market Size by Geographic Region (2021-2026)

#### 4.1.1 Global Terahertz Radar Chip Annual Sales by Geographic Region (2021-2026)

#### 4.1.2 Global Terahertz Radar Chip Annual Revenue by Geographic Region (2021-2026)

### 4.2 World Historic Terahertz Radar Chip Market Size by Country/Region (2021-2026)

#### 4.2.1 Global Terahertz Radar Chip Annual Sales by Country/Region (2021-2026)

#### 4.2.2 Global Terahertz Radar Chip Annual Revenue by Country/Region (2021-2026)

### 4.3 Americas Terahertz Radar Chip Sales Growth

### 4.4 APAC Terahertz Radar Chip Sales Growth

### 4.5 Europe Terahertz Radar Chip Sales Growth

## 4.6 Middle East & Africa Terahertz Radar Chip Sales Growth

## 5 AMERICAS

### 5.1 Americas Terahertz Radar Chip Sales by Country

#### 5.1.1 Americas Terahertz Radar Chip Sales by Country (2021-2026)

#### 5.1.2 Americas Terahertz Radar Chip Revenue by Country (2021-2026)

### 5.2 Americas Terahertz Radar Chip Sales by Type (2021-2026)

### 5.3 Americas Terahertz Radar Chip Sales by Application (2021-2026)

#### 5.4 United States

#### 5.5 Canada

#### 5.6 Mexico

#### 5.7 Brazil

## 6 APAC

### 6.1 APAC Terahertz Radar Chip Sales by Region

#### 6.1.1 APAC Terahertz Radar Chip Sales by Region (2021-2026)

#### 6.1.2 APAC Terahertz Radar Chip Revenue by Region (2021-2026)

### 6.2 APAC Terahertz Radar Chip Sales by Type (2021-2026)

### 6.3 APAC Terahertz Radar Chip Sales by Application (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 Terahertz Radar Chip by Country

#### 7.1.1 Europe Terahertz Radar Chip Sales by Country (2021-2026)

#### 7.1.2 Europe Terahertz Radar Chip Revenue by Country (2021-2026)

### 7.2 Europe Terahertz Radar Chip Sales by Type (2021-2026)

### 7.3 Europe Terahertz Radar 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 Terahertz Radar Chip by Country

8.1.1 Middle East & Africa Terahertz Radar Chip Sales by Country (2021-2026)

8.1.2 Middle East & Africa Terahertz Radar Chip Revenue by Country (2021-2026)

8.2 Middle East & Africa Terahertz Radar Chip Sales by Type (2021-2026)

8.3 Middle East & Africa Terahertz Radar Chip Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

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 Terahertz Radar Chip

10.3 Manufacturing Process Analysis of Terahertz Radar Chip

10.4 Industry Chain Structure of Terahertz Radar Chip

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Terahertz Radar Chip Distributors

11.3 Terahertz Radar Chip Customer

## **12 WORLD FORECAST REVIEW FOR TERAHERTZ RADAR CHIP BY GEOGRAPHIC REGION**

## 12.1 Global Terahertz Radar Chip Market Size Forecast by Region

### 12.1.1 Global Terahertz Radar Chip Forecast by Region (2027-2032)

### 12.1.2 Global Terahertz Radar 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)

## 12.5 Middle East & Africa Forecast by Country (2027-2032)

## 12.6 Global Terahertz Radar Chip Forecast by Type (2027-2032)

## 12.7 Global Terahertz Radar Chip Forecast by Application (2027-2032)

# 13 KEY PLAYERS ANALYSIS

## 13.1 NXP Semiconductors

### 13.1.1 NXP Semiconductors Company Information

### 13.1.2 NXP Semiconductors Terahertz Radar Chip Product Portfolios and Specifications

### 13.1.3 NXP Semiconductors Terahertz Radar Chip Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.1.4 NXP Semiconductors Main Business Overview

### 13.1.5 NXP Semiconductors Latest Developments

## 13.2 Texas Instruments

### 13.2.1 Texas Instruments Company Information

### 13.2.2 Texas Instruments Terahertz Radar Chip Product Portfolios and Specifications

### 13.2.3 Texas Instruments Terahertz Radar Chip Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.2.4 Texas Instruments Main Business Overview

### 13.2.5 Texas Instruments Latest Developments

## 13.3 Infineon Technologies

### 13.3.1 Infineon Technologies Company Information

### 13.3.2 Infineon Technologies Terahertz Radar Chip Product Portfolios and Specifications

### 13.3.3 Infineon Technologies Terahertz Radar Chip Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.3.4 Infineon Technologies Main Business Overview

### 13.3.5 Infineon Technologies Latest Developments

## 13.4 STMicroelectronics

### 13.4.1 STMicroelectronics Company Information

### 13.4.2 STMicroelectronics Terahertz Radar Chip Product Portfolios and Specifications

13.4.3 STMicroelectronics Terahertz Radar Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 STMicroelectronics Main Business Overview

13.4.5 STMicroelectronics Latest Developments

13.5 Analog Devices

13.5.1 Analog Devices Company Information

13.5.2 Analog Devices Terahertz Radar Chip Product Portfolios and Specifications

13.5.3 Analog Devices Terahertz Radar Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Analog Devices Main Business Overview

13.5.5 Analog Devices Latest Developments

13.6 Indie Semiconductor

13.6.1 Indie Semiconductor Company Information

13.6.2 Indie Semiconductor Terahertz Radar Chip Product Portfolios and Specifications

13.6.3 Indie Semiconductor Terahertz Radar Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Indie Semiconductor Main Business Overview

13.6.5 Indie Semiconductor Latest Developments

13.7 Luna Innovations

13.7.1 Luna Innovations Company Information

13.7.2 Luna Innovations Terahertz Radar Chip Product Portfolios and Specifications

13.7.3 Luna Innovations Terahertz Radar Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Luna Innovations Main Business Overview

13.7.5 Luna Innovations Latest Developments

13.8 Zhuhai Microcreative

13.8.1 Zhuhai Microcreative Company Information

13.8.2 Zhuhai Microcreative Terahertz Radar Chip Product Portfolios and Specifications

13.8.3 Zhuhai Microcreative Terahertz Radar Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Zhuhai Microcreative Main Business Overview

13.8.5 Zhuhai Microcreative Latest Developments

13.9 PAM-XIAMEN

13.9.1 PAM-XIAMEN Company Information

13.9.2 PAM-XIAMEN Terahertz Radar Chip Product Portfolios and Specifications

13.9.3 PAM-XIAMEN Terahertz Radar Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 PAM-XIAMEN Main Business Overview

13.9.5 PAM-XIAMEN Latest Developments

13.10 ChinaSimba

13.10.1 ChinaSimba Company Information

13.10.2 ChinaSimba Terahertz Radar Chip Product Portfolios and Specifications

13.10.3 ChinaSimba Terahertz Radar Chip Sales, Revenue, Price and Gross Margin  
(2021-2026)

13.10.4 ChinaSimba Main Business Overview

13.10.5 ChinaSimba Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Terahertz Radar Chip Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Terahertz Radar Chip Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 120GHz

Table 4. Major Players of 160GHz

Table 5. Major Players of 240GHz

Table 6. Major Players of 300GHz

Table 7. Major Players of Others

Table 8. Global Terahertz Radar Chip Sales by Type (2021-2026) & (K Units)

Table 9. Global Terahertz Radar Chip Sales Market Share by Type (2021-2026)

Table 10. Global Terahertz Radar Chip Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Terahertz Radar Chip Revenue Market Share by Type (2021-2026)

Table 12. Global Terahertz Radar Chip Sale Price by Type (2021-2026) & (US\$/Unit)

Table 13. Global Terahertz Radar Chip Sale by Application (2021-2026) & (K Units)

Table 14. Global Terahertz Radar Chip Sale Market Share by Application (2021-2026)

Table 15. Global Terahertz Radar Chip Revenue by Application (2021-2026) & (\$ million)

Table 16. Global Terahertz Radar Chip Revenue Market Share by Application (2021-2026)

Table 17. Global Terahertz Radar Chip Sale Price by Application (2021-2026) & (US\$/Unit)

Table 18. Global Terahertz Radar Chip Sales by Company (2021-2026) & (K Units)

Table 19. Global Terahertz Radar Chip Sales Market Share by Company (2021-2026)

Table 20. Global Terahertz Radar Chip Revenue by Company (2021-2026) & (\$ millions)

Table 21. Global Terahertz Radar Chip Revenue Market Share by Company (2021-2026)

Table 22. Global Terahertz Radar Chip Sale Price by Company (2021-2026) & (US\$/Unit)

Table 23. Key Manufacturers Terahertz Radar Chip Producing Area Distribution and Sales Area

Table 24. Players Terahertz Radar Chip Products Offered

Table 25. Terahertz Radar Chip Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 26. New Products and Potential Entrants

Table 27. Market M&A Activity & Strategy

Table 28. Global Terahertz Radar Chip Sales by Geographic Region (2021-2026) & (K Units)

Table 29. Global Terahertz Radar Chip Sales Market Share Geographic Region (2021-2026)

Table 30. Global Terahertz Radar Chip Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 31. Global Terahertz Radar Chip Revenue Market Share by Geographic Region (2021-2026)

Table 32. Global Terahertz Radar Chip Sales by Country/Region (2021-2026) & (K Units)

Table 33. Global Terahertz Radar Chip Sales Market Share by Country/Region (2021-2026)

Table 34. Global Terahertz Radar Chip Revenue by Country/Region (2021-2026) & (\$ millions)

Table 35. Global Terahertz Radar Chip Revenue Market Share by Country/Region (2021-2026)

Table 36. Americas Terahertz Radar Chip Sales by Country (2021-2026) & (K Units)

Table 37. Americas Terahertz Radar Chip Sales Market Share by Country (2021-2026)

Table 38. Americas Terahertz Radar Chip Revenue by Country (2021-2026) & (\$ millions)

Table 39. Americas Terahertz Radar Chip Sales by Type (2021-2026) & (K Units)

Table 40. Americas Terahertz Radar Chip Sales by Application (2021-2026) & (K Units)

Table 41. APAC Terahertz Radar Chip Sales by Region (2021-2026) & (K Units)

Table 42. APAC Terahertz Radar Chip Sales Market Share by Region (2021-2026)

Table 43. APAC Terahertz Radar Chip Revenue by Region (2021-2026) & (\$ millions)

Table 44. APAC Terahertz Radar Chip Sales by Type (2021-2026) & (K Units)

Table 45. APAC Terahertz Radar Chip Sales by Application (2021-2026) & (K Units)

Table 46. Europe Terahertz Radar Chip Sales by Country (2021-2026) & (K Units)

Table 47. Europe Terahertz Radar Chip Revenue by Country (2021-2026) & (\$ millions)

Table 48. Europe Terahertz Radar Chip Sales by Type (2021-2026) & (K Units)

Table 49. Europe Terahertz Radar Chip Sales by Application (2021-2026) & (K Units)

Table 50. Middle East & Africa Terahertz Radar Chip Sales by Country (2021-2026) & (K Units)

Table 51. Middle East & Africa Terahertz Radar Chip Revenue Market Share by Country (2021-2026)

Table 52. Middle East & Africa Terahertz Radar Chip Sales by Type (2021-2026) & (K Units)

|                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------|
| Table 53. Middle East & Africa Terahertz Radar Chip Sales by Application (2021-2026) & (K Units)                        |
| Table 54. Key Market Drivers & Growth Opportunities of Terahertz Radar Chip                                             |
| Table 55. Key Market Challenges & Risks of Terahertz Radar Chip                                                         |
| Table 56. Key Industry Trends of Terahertz Radar Chip                                                                   |
| Table 57. Terahertz Radar Chip Raw Material                                                                             |
| Table 58. Key Suppliers of Raw Materials                                                                                |
| Table 59. Terahertz Radar Chip Distributors List                                                                        |
| Table 60. Terahertz Radar Chip Customer List                                                                            |
| Table 61. Global Terahertz Radar Chip Sales Forecast by Region (2027-2032) & (K Units)                                  |
| Table 62. Global Terahertz Radar Chip Revenue Forecast by Region (2027-2032) & (\$ millions)                            |
| Table 63. Americas Terahertz Radar Chip Sales Forecast by Country (2027-2032) & (K Units)                               |
| Table 64. Americas Terahertz Radar Chip Annual Revenue Forecast by Country (2027-2032) & (\$ millions)                  |
| Table 65. APAC Terahertz Radar Chip Sales Forecast by Region (2027-2032) & (K Units)                                    |
| Table 66. APAC Terahertz Radar Chip Annual Revenue Forecast by Region (2027-2032) & (\$ millions)                       |
| Table 67. Europe Terahertz Radar Chip Sales Forecast by Country (2027-2032) & (K Units)                                 |
| Table 68. Europe Terahertz Radar Chip Revenue Forecast by Country (2027-2032) & (\$ millions)                           |
| Table 69. Middle East & Africa Terahertz Radar Chip Sales Forecast by Country (2027-2032) & (K Units)                   |
| Table 70. Middle East & Africa Terahertz Radar Chip Revenue Forecast by Country (2027-2032) & (\$ millions)             |
| Table 71. Global Terahertz Radar Chip Sales Forecast by Type (2027-2032) & (K Units)                                    |
| Table 72. Global Terahertz Radar Chip Revenue Forecast by Type (2027-2032) & (\$ millions)                              |
| Table 73. Global Terahertz Radar Chip Sales Forecast by Application (2027-2032) & (K Units)                             |
| Table 74. Global Terahertz Radar Chip Revenue Forecast by Application (2027-2032) & (\$ millions)                       |
| Table 75. NXP Semiconductors Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors |
| Table 76. NXP Semiconductors Terahertz Radar Chip Product Portfolios and                                                |

## Specifications

Table 77. NXP Semiconductors Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 78. NXP Semiconductors Main Business

Table 79. NXP Semiconductors Latest Developments

Table 80. Texas Instruments Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors

Table 81. Texas Instruments Terahertz Radar Chip Product Portfolios and Specifications

Table 82. Texas Instruments Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 83. Texas Instruments Main Business

Table 84. Texas Instruments Latest Developments

Table 85. Infineon Technologies Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors

Table 86. Infineon Technologies Terahertz Radar Chip Product Portfolios and Specifications

Table 87. Infineon Technologies Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 88. Infineon Technologies Main Business

Table 89. Infineon Technologies Latest Developments

Table 90. STMicroelectronics Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors

Table 91. STMicroelectronics Terahertz Radar Chip Product Portfolios and Specifications

Table 92. STMicroelectronics Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. STMicroelectronics Main Business

Table 94. STMicroelectronics Latest Developments

Table 95. Analog Devices Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors

Table 96. Analog Devices Terahertz Radar Chip Product Portfolios and Specifications

Table 97. Analog Devices Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Analog Devices Main Business

Table 99. Analog Devices Latest Developments

Table 100. Indie Semiconductor Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors

Table 101. Indie Semiconductor Terahertz Radar Chip Product Portfolios and

## Specifications

Table 102. Indie Semiconductor Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Indie Semiconductor Main Business

Table 104. Indie Semiconductor Latest Developments

Table 105. Luna Innovations Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors

Table 106. Luna Innovations Terahertz Radar Chip Product Portfolios and Specifications

Table 107. Luna Innovations Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Luna Innovations Main Business

Table 109. Luna Innovations Latest Developments

Table 110. Zhuhai Microcreative Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors

Table 111. Zhuhai Microcreative Terahertz Radar Chip Product Portfolios and Specifications

Table 112. Zhuhai Microcreative Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Zhuhai Microcreative Main Business

Table 114. Zhuhai Microcreative Latest Developments

Table 115. PAM-XIAMEN Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors

Table 116. PAM-XIAMEN Terahertz Radar Chip Product Portfolios and Specifications

Table 117. PAM-XIAMEN Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. PAM-XIAMEN Main Business

Table 119. PAM-XIAMEN Latest Developments

Table 120. ChinaSimba Basic Information, Terahertz Radar Chip Manufacturing Base, Sales Area and Its Competitors

Table 121. ChinaSimba Terahertz Radar Chip Product Portfolios and Specifications

Table 122. ChinaSimba Terahertz Radar Chip Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. ChinaSimba Main Business

Table 124. ChinaSimba Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Terahertz Radar Chip
- Figure 2. Terahertz Radar Chip Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Terahertz Radar Chip Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Terahertz Radar Chip Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Terahertz Radar Chip Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Terahertz Radar Chip Sales Market Share by Country/Region (2025)
- Figure 10. Terahertz Radar Chip Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 120GHz
- Figure 12. Product Picture of 160GHz
- Figure 13. Product Picture of 240GHz
- Figure 14. Product Picture of 300GHz
- Figure 15. Product Picture of Others
- Figure 16. Global Terahertz Radar Chip Sales Market Share by Type in 2026
- Figure 17. Global Terahertz Radar Chip Revenue Market Share by Type (2021-2026)
- Figure 18. Terahertz Radar Chip Consumed in Automotive
- Figure 19. Global Terahertz Radar Chip Market: Automotive (2021-2026) & (K Units)
- Figure 20. Terahertz Radar Chip Consumed in Industrial Inspection
- Figure 21. Global Terahertz Radar Chip Market: Industrial Inspection (2021-2026) & (K Units)
- Figure 22. Terahertz Radar Chip Consumed in Medical Imaging
- Figure 23. Global Terahertz Radar Chip Market: Medical Imaging (2021-2026) & (K Units)
- Figure 24. Terahertz Radar Chip Consumed in Security & Surveillance
- Figure 25. Global Terahertz Radar Chip Market: Security & Surveillance (2021-2026) & (K Units)
- Figure 26. Terahertz Radar Chip Consumed in Telecommunication
- Figure 27. Global Terahertz Radar Chip Market: Telecommunication (2021-2026) & (K Units)
- Figure 28. Terahertz Radar Chip Consumed in Others
- Figure 29. Global Terahertz Radar Chip Market: Others (2021-2026) & (K Units)

Figure 30. Global Terahertz Radar Chip Sale Market Share by Application (2025)

Figure 31. Global Terahertz Radar Chip Revenue Market Share by Application in 2026

Figure 32. Terahertz Radar Chip Sales by Company in 2026 (K Units)

Figure 33. Global Terahertz Radar Chip Sales Market Share by Company in 2026

Figure 34. Terahertz Radar Chip Revenue by Company in 2026 (\$ millions)

Figure 35. Global Terahertz Radar Chip Revenue Market Share by Company in 2026

Figure 36. Global Terahertz Radar Chip Sales Market Share by Geographic Region (2021-2026)

Figure 37. Global Terahertz Radar Chip Revenue Market Share by Geographic Region in 2026

Figure 38. Americas Terahertz Radar Chip Sales 2021-2026 (K Units)

Figure 39. Americas Terahertz Radar Chip Revenue 2021-2026 (\$ millions)

Figure 40. APAC Terahertz Radar Chip Sales 2021-2026 (K Units)

Figure 41. APAC Terahertz Radar Chip Revenue 2021-2026 (\$ millions)

Figure 42. Europe Terahertz Radar Chip Sales 2021-2026 (K Units)

Figure 43. Europe Terahertz Radar Chip Revenue 2021-2026 (\$ millions)

Figure 44. Middle East & Africa Terahertz Radar Chip Sales 2021-2026 (K Units)

Figure 45. Middle East & Africa Terahertz Radar Chip Revenue 2021-2026 (\$ millions)

Figure 46. Americas Terahertz Radar Chip Sales Market Share by Country in 2026

Figure 47. Americas Terahertz Radar Chip Revenue Market Share by Country (2021-2026)

Figure 48. Americas Terahertz Radar Chip Sales Market Share by Type (2021-2026)

Figure 49. Americas Terahertz Radar Chip Sales Market Share by Application (2021-2026)

Figure 50. United States Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 51. Canada Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 52. Mexico Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC Terahertz Radar Chip Sales Market Share by Region in 2026

Figure 55. APAC Terahertz Radar Chip Revenue Market Share by Region (2021-2026)

Figure 56. APAC Terahertz Radar Chip Sales Market Share by Type (2021-2026)

Figure 57. APAC Terahertz Radar Chip Sales Market Share by Application (2021-2026)

Figure 58. China Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 62. India Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 64. China Taiwan Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 65. Europe Terahertz Radar Chip Sales Market Share by Country in 2026

Figure 66. Europe Terahertz Radar Chip Revenue Market Share by Country  
(2021-2026)

Figure 67. Europe Terahertz Radar Chip Sales Market Share by Type (2021-2026)

Figure 68. Europe Terahertz Radar Chip Sales Market Share by Application  
(2021-2026)

Figure 69. Germany Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 70. France Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 71. UK Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 72. Italy Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 73. Russia Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 74. Middle East & Africa Terahertz Radar Chip Sales Market Share by Country  
(2021-2026)

Figure 75. Middle East & Africa Terahertz Radar Chip Sales Market Share by Type  
(2021-2026)

Figure 76. Middle East & Africa Terahertz Radar Chip Sales Market Share by  
Application (2021-2026)

Figure 77. Egypt Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Africa Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 79. Israel Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 80. Turkey Terahertz Radar Chip Revenue Growth 2021-2026 (\$ millions)

Figure 81. GCC Countries Terahertz Radar Chip Revenue Growth 2021-2026 (\$  
millions)

Figure 82. Manufacturing Cost Structure Analysis of Terahertz Radar Chip in 2026

Figure 83. Manufacturing Process Analysis of Terahertz Radar Chip

Figure 84. Industry Chain Structure of Terahertz Radar Chip

Figure 85. Channels of Distribution

Figure 86. Global Terahertz Radar Chip Sales Market Forecast by Region (2027-2032)

Figure 87. Global Terahertz Radar Chip Revenue Market Share Forecast by Region  
(2027-2032)

Figure 88. Global Terahertz Radar Chip Sales Market Share Forecast by Type  
(2027-2032)

Figure 89. Global Terahertz Radar Chip Revenue Market Share Forecast by Type  
(2027-2032)

Figure 90. Global Terahertz Radar Chip Sales Market Share Forecast by Application  
(2027-2032)

Figure 91. Global Terahertz Radar Chip Revenue Market Share Forecast by Application  
(2027-2032)

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