

Automotive Millimeter- Wave Radar IC Market: Trends, Opportunities and Competitive Analysis

<https://marketpublishers.com/r/A32EBF93EDACEN.html>

Date: December 2022

Pages: 165

Price: US\$ 4,850.00 (Single User License)

ID: A32EBF93EDACEN

Abstracts

The future of the automotive millimeter-wave (mmWave) radar IC market looks attractive with opportunities in adaptive cruise control, blind spot detection (BSD), forward collision warning, parking assist, automatic emergency braking system (AEBS), and other automotive advanced driver assistance systems (ADAS) applications. The global automotive millimeter-wave radar IC market is expected to reach \$877.9 million by 2027 with a CAGR of 15.5% from 2021 to 2027. The major drivers for this market are increase in the adoption of ADAS technology by OEMs, increasing governments' regulations for vehicle safety, and growing demand for autonomous vehicles.

Emerging Trends in the Automotive Millimeter-Wave Radar IC Market

Emerging trends, which have a direct impact on the dynamics of the industry, include introduction of CMOS RF transceiver and focus on miniaturization of products. Infineon Technologies AG, NXP Semiconductors N.V., United Monolithic Semiconductors, Mitsubishi Electric Corporation, and Texas Instruments are among the major automotive mmWave radar IC providers.

A total of 96 figures/charts and 87 tables are provided in this 165-page report to help in your business decisions. A sample figure with insights is shown below. To learn the scope of benefits, companies researched, and other details of the automotive millimeter-wave radar IC market report, please download the report brochure.

Automotive Millimeter-Wave Radar IC Market by Segment

The study includes a forecast for the global automotive millimeter-wave radar IC market by product type, application, frequency range, technology, and region as follows:

By Product Type [\$M and M unit shipment analysis from 2016 to 2027]:

24 GHz

77 GHz & Others

By Application [\$M shipment analysis from 2016 to 2027]:

Adaptive Cruise Control

Blind Spot Detection (BSD)

Forward Collision Warning

Parking Assist

Automatic Emergency Braking System (AEBS)

Others

By Frequency Range [\$M and M Unit shipment analysis from 2016 to 2027]:

Short and Medium Radar

Long-Range Radar

By Technology [\$M shipment analysis from 2016 to 2027]:

GaAs

SiGe BiCMOS

RF CMOS

By Region [\$M and M Unit shipment analysis for 2016 – 2027]:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

Asia Pacific

Japan

China

The Rest of the World

List of Automotive Millimeter-Wave Radar IC Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their new product developments, partnerships, mergers & acquisition, and leverage integration opportunities across the value chain. With these strategies automotive millimeter-wave radar IC companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the automotive millimeter-wave radar IC companies profiled in this report include.

Infineon Technologies AG

NXP Semiconductors N.V.

Texas Instruments

United Monolithic Semiconductor

Mitsubishi Electric Corporation

Automotive Millimeter-Wave Radar IC Market Insight

Lucintel forecasts that 24 GHz is the largest product type used due to its low cost. 77 GHz & other types mmWave radar IC are expected to witness the highest growth during the forecast period due to its wider bandwidth, improve range resolution, and accuracy.

Adaptive cruise control will remain the largest application over the forecast period.

North America will remain the largest region and Europe is expected to witness highest growth over the forecast period

Features of Automotive Millimeter-Wave Radar IC Market

Market Size Estimates: Automotive millimeter-wave radar IC market size estimation in terms of value (\$M)

Trend and Forecast Analysis: Market trends (2016-2021) and forecast (2022-2027) by various segments and regions.

Segmentation Analysis: Market size by product type, application, frequency range, technology, and region as follows:

Regional Analysis: Automotive millimeter-wave radar IC market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis of growth opportunities in product type, application, frequency range, technology, and region as follows:

Strategic Analysis: This includes M&A, new product development, and

competitive landscape for the automotive millimeter-wave radar IC market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q1. What is the automotive millimeter-wave radar IC market size?

Answer: The global automotive millimeter-wave radar IC market is expected to reach an estimated \$ 877.9 million by 2027

Q2. What is the growth forecast for automotive millimeter-wave radar IC market?

Answer: The automotive millimeter-wave radar IC market is expected to grow at a CAGR of 15.5% from 2021 to 2027.

Q3. What are the major drivers influencing the growth of the automotive millimeter-wave radar IC market?

Answer: The major drivers for this market are increase in the adoption of ADAS technology by OEMs, increasing governments' regulations for vehicle safety, and growing demand for autonomous vehicles.

Q4. What are the major applications or end use industries for automotive millimeter-wave radar IC market?

Answer: Adaptive cruise control is the major application for automotive millimeter-wave radar IC market.

Q5. What are the emerging trends in automotive millimeter-wave radar IC market?

Answer: Emerging trends, which have a direct impact on the dynamics of the industry, include introduction of CMOS RF transceiver and focus on miniaturization of products.

Q6. Who is the key automotive millimeter-wave radar IC companies?

Answer: Some of the key Automotive Millimeter-Wave Radar IC companies are as

follows:

Infineon Technologies AG

NXP Semiconductors N.V.

Texas Instruments

United Monolithic Semiconductor

Mitsubishi Electric Corporation

Q7. Which automotive millimeter-wave radar IC product segment will be the largest in future?

Answer: Lucintel forecasts that 24 GHz is the largest product type used due to its low cost. 77 GHz & other types mmWave radar IC are expected to witness the highest growth during the forecast period due to its wider bandwidth, improve range resolution, and accuracy.

Q8. In automotive millimeter-wave radar IC market, which region is expected to be the largest in next 5 years?

Answer: Europe is expected to remain the largest region and witness the highest growth over next 5 years

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1. What are some of the most promising, high-growth opportunities for the global automotive millimeter-wave radar IC by product type (24GHz , 77GHz and others) by application (adaptive cruise control, blind spot detection (BSD), forward collision warning, parking assist, automatic emergency braking system (AEBS), and other automotive advanced driver assistance systems (ADAS)), by frequency range (short and medium radar and long-range radar), by technology (GaAs, SiGe BICMOS, RF

CMOS) and by region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which regions will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5. What are the business risks and threats to the market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10. What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via product substitution?

Q.11. What M&A activity has occurred in the last 5 years?

For any questions related to automotive millimeter-wave radar IC market or related to radar IC, automotive radar sensor, automotive radar frequency, 77 Ghz radar, automotive radar testing simulation, automotive imaging radar, automotive radar calibration, automotive radar target simulator, 4D radar automotive, automotive millimeter-wave radar IC companies, automotive millimeter-wave radar IC market size, automotive millimeter-wave radar IC market share, automotive millimeter-wave radar IC analysis, write Lucintel analyst at email: helpdesk@lucintel.com we will be glad to get back to you soon.

Contents

1. EXECUTIVE SUMMARY

2. MARKET BACKGROUND AND CLASSIFICATIONS

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2016 TO 2027

3.1: Macroeconomic Trends and Forecast

3.2: Global Automotive mmWave Radar IC Market Trends and Forecast

3.3: Global Automotive mmWave Radar IC Market by Product Type

3.3.1: 24 GHz

3.3.2: 77 GHz & Others

3.4: Global Automotive mmWave Radar IC Market by Manufacturing Technology

3.4.1: RF CMOS

3.4.2: SiGe-Bi CMOS

3.4.3: GaAs

3.5: Global Automotive mmWave Radar IC Market by Application

3.5.1: Adaptive Cruise Control (ACC)

3.5.2: Blind Spot Detection (BSD)

3.5.3: Forward Collision Warning

3.5.4: Parking Assistance System (PAS)

3.5.5: Automatic Emergency Braking System (AEBS)

3.5.6: Others

3.6: Global Automotive mmWave Radar IC Market by Frequency Range

3.6.1: Long-range Radar

3.6.2: Short- and Medium-Range Radar

4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION

4.1: Global Automotive mmWave Radar IC Market by Region

4.2: North American Automotive mmWave Radar IC Market

4.2.1: North American Automotive mmWave Radar IC Market by Product Type

4.2.2: The US Automotive mmWave Radar IC Market

4.2.3: The Canadian Automotive mmWave Radar IC Market

- 4.2.4: The Mexican Automotive mmWave Radar IC Market
- 4.3: European Automotive mmWave Radar IC Market
 - 4.3.1: European Automotive mmWave Radar IC Market by Product Type
 - 4.3.2: German Automotive mmWave Radar IC Market
 - 4.3.3: The UK Automotive mmWave Radar IC Market
- 4.4: APAC Automotive mmWave Radar IC Market
 - 4.4.1: APAC Automotive mmWave Radar IC Market by Product Type
 - 4.4.2: Chinese Automotive mmWave Radar IC Market
 - 4.4.3: Japanese Automotive mmWave Radar IC Market
- 4.5: ROW Automotive mmWave Radar IC Market
 - 4.5.1: ROW Automotive mmWave Radar IC Market by Product Type

5. COMPETITOR ANALYSIS

- 5.1: Product Portfolio Analysis
- 5.2: Geographical Reach
- 5.3: Porter's Five Forces Analysis

6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS

6. GROWTH OPPORTUNITY ANALYSIS

- 6.1.1: Growth Opportunities for the Global Automotive mmWave Radar IC Market by Application
- 6.1.2: Growth Opportunities for the Global Automotive mmWave Radar IC Market by Product Type
- 6.1.3: Growth Opportunities for the Global Automotive mmWave Radar IC Market by Frequency Range
- 6.1.4: Growth Opportunities for the Global Automotive mmWave Radar IC Market by Region
- 6.2: Emerging Trends in the Global Automotive mmWave Radar IC Market
- 6.3: Strategic Analysis
 - 6.3.1: Geographical Expansion
 - 6.3.2: New Product Development
 - 6.3.3: Acquisitions and Partnership in the Global Automotive mmWave Radar IC Market

7. COMPANY PROFILES OF LEADING PLAYERS

- 7.1: Infineon Technologies AG
- 7.2: NXP Semiconductors N.V.
- 7.3: Texas Instruments
- 7.4: United Monolithic Semiconductors
- 7.5: Mitsubishi Electric Corporation

I would like to order

Product name: Automotive Millimeter- Wave Radar IC Market: Trends, Opportunities and Competitive Analysis

Product link: <https://marketpublishers.com/r/A32EBF93EDACEN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A32EBF93EDACEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

