

# Global Automotive Grade 4D Digital Imaging Radar Chip Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GFDD07667E8DEN.html>

Date: May 2024

Pages: 151

Price: US\$ 3,480.00 (Single User License)

ID: GFDD07667E8DEN

## Abstracts

4D millimeter wave radar is an upgraded version of traditional millimeter wave radar. 4D refers to the four dimensions of speed, distance, horizontal angle, and vertical height. Compared with traditional 3D millimeter wave radar, 4D millimeter wave radar increases 'height' detection and has higher resolution and accuracy. With the support of artificial intelligence technology, more intelligent perception and tracking can be achieved, thereby providing more reliable data support for fields such as autonomous driving and intelligent transportation. 4D millimeter wave radar chips are mainly MMIC chips. The full name of MMIC radio frequency chip is monolithic microwave integrated circuit, which is a chip containing multiple functional circuits and is mainly responsible for the modulation, transmission and reception of millimeter wave signals and the demodulation of echo signals.

According to our (Global Info Research) latest study, the global Automotive Grade 4D Digital Imaging Radar Chip market size was valued at US\$ million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of %during review period.

This report is a detailed and comprehensive analysis for global Automotive Grade 4D Digital Imaging Radar Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

### Key Features:

Global Automotive Grade 4D Digital Imaging Radar Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2019-2030

Global Automotive Grade 4D Digital Imaging Radar Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2019-2030

Global Automotive Grade 4D Digital Imaging Radar Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2019-2030

Global Automotive Grade 4D Digital Imaging Radar Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 2019-2024

The Primary Objectives in This Report Are:

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

To assess the growth potential for Automotive Grade 4D Digital Imaging Radar Chip

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Grade 4D Digital Imaging Radar Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NXP Semiconductors, Texas Instruments, STMicroelectronics, Infineon, Uhnder, AKM (Asahi Kasei Microdevices), Analog Devices, Renesas Electronics, Onsemi, Calterah, etc.

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

### Market Segmentation

Automotive Grade 4D Digital Imaging Radar Chip market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

77GHz Millimeter Wave Radar Chip

24GHz Millimeter Wave Radar Chip

Others (60/80GHz)

#### Market segment by Application

Driverless Car

UAV

Intelligent Transportation

Intelligent Home

#### Major players covered

NXP Semiconductors

Texas Instruments

STMicroelectronics

Infineon

Uhnder

AKM (Asahi Kasei Microdevices)

Analog Devices

Renesas Electronics

Onsemi

Calterah

ANDAR TECHNOLOGIES CO., LTD

SGR Semiconductors

Microcreative

Senardmicro

Citta Microelectronics Ltd.

Imsemi

Guibu Microelectronics (Nanjing) Co., Ltd.

Huizhou Speed Wireless Technology Co., Ltd.

Sichuan Jiuzhou Electric Co., Ltd.

Misic Microelectronics Co., Ltd.

Chengdu Sinoscite Technology Co., Ltd.

Qingneng Huabo (Beijing) Technology Co., Ltd.

Milliway

Muye Microelectronics

Hxele

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

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

Chapter 1, to describe Automotive Grade 4D Digital Imaging Radar Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Grade 4D Digital Imaging Radar Chip, with price, sales quantity, revenue, and global market share of Automotive Grade 4D Digital Imaging Radar Chip from 2019 to 2024.

Chapter 3, the Automotive Grade 4D Digital Imaging Radar Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Grade 4D Digital Imaging Radar Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and Automotive Grade 4D Digital Imaging Radar Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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

analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Grade 4D Digital Imaging Radar Chip.

Chapter 14 and 15, to describe Automotive Grade 4D Digital Imaging Radar Chip sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Type: 2019 Versus 2023 Versus 2030
  - 1.3.2 77GHz Millimeter Wave Radar Chip
  - 1.3.3 24GHz Millimeter Wave Radar Chip
  - 1.3.4 Others (60/80GHz)
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Driverless Car
  - 1.4.3 UAV
  - 1.4.4 Intelligent Transportation
  - 1.4.5 Intelligent Home
- 1.5 Global Automotive Grade 4D Digital Imaging Radar Chip Market Size & Forecast
  - 1.5.1 Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (2019-2030)
  - 1.5.3 Global Automotive Grade 4D Digital Imaging Radar Chip Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

- 2.1 NXP Semiconductors
  - 2.1.1 NXP Semiconductors Details
  - 2.1.2 NXP Semiconductors Major Business
  - 2.1.3 NXP Semiconductors Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.1.4 NXP Semiconductors Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.1.5 NXP Semiconductors Recent Developments/Updates
- 2.2 Texas Instruments
  - 2.2.1 Texas Instruments Details

- 2.2.2 Texas Instruments Major Business
- 2.2.3 Texas Instruments Automotive Grade 4D Digital Imaging Radar Chip Product and Services
- 2.2.4 Texas Instruments Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.2.5 Texas Instruments Recent Developments/Updates
- 2.3 STMicroelectronics
  - 2.3.1 STMicroelectronics Details
  - 2.3.2 STMicroelectronics Major Business
  - 2.3.3 STMicroelectronics Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.3.4 STMicroelectronics Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.3.5 STMicroelectronics Recent Developments/Updates
- 2.4 Infineon
  - 2.4.1 Infineon Details
  - 2.4.2 Infineon Major Business
  - 2.4.3 Infineon Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.4.4 Infineon Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.4.5 Infineon Recent Developments/Updates
- 2.5 Uhnder
  - 2.5.1 Uhnder Details
  - 2.5.2 Uhnder Major Business
  - 2.5.3 Uhnder Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.5.4 Uhnder Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.5.5 Uhnder Recent Developments/Updates
- 2.6 AKM (Asahi Kasei Microdevices)
  - 2.6.1 AKM (Asahi Kasei Microdevices) Details
  - 2.6.2 AKM (Asahi Kasei Microdevices) Major Business
  - 2.6.3 AKM (Asahi Kasei Microdevices) Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.6.4 AKM (Asahi Kasei Microdevices) Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.6.5 AKM (Asahi Kasei Microdevices) Recent Developments/Updates
- 2.7 Analog Devices
  - 2.7.1 Analog Devices Details



- 2.7.2 Analog Devices Major Business
- 2.7.3 Analog Devices Automotive Grade 4D Digital Imaging Radar Chip Product and Services
- 2.7.4 Analog Devices Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.7.5 Analog Devices Recent Developments/Updates
- 2.8 Renesas Electronics
  - 2.8.1 Renesas Electronics Details
  - 2.8.2 Renesas Electronics Major Business
  - 2.8.3 Renesas Electronics Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.8.4 Renesas Electronics Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.8.5 Renesas Electronics Recent Developments/Updates
- 2.9 Onsemi
  - 2.9.1 Onsemi Details
  - 2.9.2 Onsemi Major Business
  - 2.9.3 Onsemi Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.9.4 Onsemi Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.9.5 Onsemi Recent Developments/Updates
- 2.10 Calterah
  - 2.10.1 Calterah Details
  - 2.10.2 Calterah Major Business
  - 2.10.3 Calterah Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.10.4 Calterah Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.10.5 Calterah Recent Developments/Updates
- 2.11 ANDAR TECHNOLOGIES CO., LTD
  - 2.11.1 ANDAR TECHNOLOGIES CO., LTD Details
  - 2.11.2 ANDAR TECHNOLOGIES CO., LTD Major Business
  - 2.11.3 ANDAR TECHNOLOGIES CO., LTD Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.11.4 ANDAR TECHNOLOGIES CO., LTD Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.11.5 ANDAR TECHNOLOGIES CO., LTD Recent Developments/Updates
- 2.12 SGR Semiconductors

- 2.12.1 SGR Semiconductors Details
- 2.12.2 SGR Semiconductors Major Business
- 2.12.3 SGR Semiconductors Automotive Grade 4D Digital Imaging Radar Chip Product and Services
- 2.12.4 SGR Semiconductors Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.12.5 SGR Semiconductors Recent Developments/Updates
- 2.13 Microcreative
  - 2.13.1 Microcreative Details
  - 2.13.2 Microcreative Major Business
  - 2.13.3 Microcreative Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.13.4 Microcreative Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.13.5 Microcreative Recent Developments/Updates
- 2.14 Senardmicro
  - 2.14.1 Senardmicro Details
  - 2.14.2 Senardmicro Major Business
  - 2.14.3 Senardmicro Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.14.4 Senardmicro Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.14.5 Senardmicro Recent Developments/Updates
- 2.15 Citta Microelectronics Ltd.
  - 2.15.1 Citta Microelectronics Ltd. Details
  - 2.15.2 Citta Microelectronics Ltd. Major Business
  - 2.15.3 Citta Microelectronics Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.15.4 Citta Microelectronics Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.15.5 Citta Microelectronics Ltd. Recent Developments/Updates
- 2.16 Imsemi
  - 2.16.1 Imsemi Details
  - 2.16.2 Imsemi Major Business
  - 2.16.3 Imsemi Automotive Grade 4D Digital Imaging Radar Chip Product and Services
  - 2.16.4 Imsemi Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.16.5 Imsemi Recent Developments/Updates
- 2.17 Guibu Microelectronics (Nanjing) Co., Ltd.

- 2.17.1 Guibu Microelectronics (Nanjing) Co., Ltd. Details
- 2.17.2 Guibu Microelectronics (Nanjing) Co., Ltd. Major Business
- 2.17.3 Guibu Microelectronics (Nanjing) Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services
- 2.17.4 Guibu Microelectronics (Nanjing) Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.17.5 Guibu Microelectronics (Nanjing) Co., Ltd. Recent Developments/Updates
- 2.18 Huizhou Speed Wireless Technology Co., Ltd.
- 2.18.1 Huizhou Speed Wireless Technology Co., Ltd. Details
- 2.18.2 Huizhou Speed Wireless Technology Co., Ltd. Major Business
- 2.18.3 Huizhou Speed Wireless Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services
- 2.18.4 Huizhou Speed Wireless Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.18.5 Huizhou Speed Wireless Technology Co., Ltd. Recent Developments/Updates
- 2.19 Sichuan Jiuzhou Electric Co., Ltd.
- 2.19.1 Sichuan Jiuzhou Electric Co., Ltd. Details
- 2.19.2 Sichuan Jiuzhou Electric Co., Ltd. Major Business
- 2.19.3 Sichuan Jiuzhou Electric Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services
- 2.19.4 Sichuan Jiuzhou Electric Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.19.5 Sichuan Jiuzhou Electric Co., Ltd. Recent Developments/Updates
- 2.20 Mistic Microelectronics Co., Ltd.
- 2.20.1 Mistic Microelectronics Co., Ltd. Details
- 2.20.2 Mistic Microelectronics Co., Ltd. Major Business
- 2.20.3 Mistic Microelectronics Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services
- 2.20.4 Mistic Microelectronics Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.20.5 Mistic Microelectronics Co., Ltd. Recent Developments/Updates
- 2.21 Chengdu Sinoscite Technology Co., Ltd.
- 2.21.1 Chengdu Sinoscite Technology Co., Ltd. Details
- 2.21.2 Chengdu Sinoscite Technology Co., Ltd. Major Business
- 2.21.3 Chengdu Sinoscite Technology Co., Ltd. Automotive Grade 4D Digital Imaging

## Radar Chip Product and Services

2.21.4 Chengdu Sinoscite Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.21.5 Chengdu Sinoscite Technology Co., Ltd. Recent Developments/Updates

## 2.22 Qingneng Huabo (Beijing) Technology Co., Ltd.

2.22.1 Qingneng Huabo (Beijing) Technology Co., Ltd. Details

2.22.2 Qingneng Huabo (Beijing) Technology Co., Ltd. Major Business

2.22.3 Qingneng Huabo (Beijing) Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services

2.22.4 Qingneng Huabo (Beijing) Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.22.5 Qingneng Huabo (Beijing) Technology Co., Ltd. Recent Developments/Updates

## 2.23 Milliway

2.23.1 Milliway Details

2.23.2 Milliway Major Business

2.23.3 Milliway Automotive Grade 4D Digital Imaging Radar Chip Product and Services

2.23.4 Milliway Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.23.5 Milliway Recent Developments/Updates

## 2.24 Muye Microelectronics

2.24.1 Muye Microelectronics Details

2.24.2 Muye Microelectronics Major Business

2.24.3 Muye Microelectronics Automotive Grade 4D Digital Imaging Radar Chip Product and Services

2.24.4 Muye Microelectronics Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.24.5 Muye Microelectronics Recent Developments/Updates

## 2.25 Hxele

2.25.1 Hxele Details

2.25.2 Hxele Major Business

2.25.3 Hxele Automotive Grade 4D Digital Imaging Radar Chip Product and Services

2.25.4 Hxele Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.25.5 Hxele Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE GRADE 4D DIGITAL IMAGING**

## **RADAR CHIP BY MANUFACTURER**

3.1 Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Manufacturer (2019-2024)

3.2 Global Automotive Grade 4D Digital Imaging Radar Chip Revenue by Manufacturer (2019-2024)

3.3 Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Automotive Grade 4D Digital Imaging Radar Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 Automotive Grade 4D Digital Imaging Radar Chip Manufacturer Market Share in 2023

3.4.3 Top 6 Automotive Grade 4D Digital Imaging Radar Chip Manufacturer Market Share in 2023

3.5 Automotive Grade 4D Digital Imaging Radar Chip Market: Overall Company Footprint Analysis

3.5.1 Automotive Grade 4D Digital Imaging Radar Chip Market: Region Footprint

3.5.2 Automotive Grade 4D Digital Imaging Radar Chip Market: Company Product Type Footprint

3.5.3 Automotive Grade 4D Digital Imaging Radar Chip Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global Automotive Grade 4D Digital Imaging Radar Chip Market Size by Region

4.1.1 Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Region (2019-2030)

4.1.2 Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Region (2019-2030)

4.1.3 Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Region (2019-2030)

4.2 North America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030)

4.3 Europe Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030)

4.4 Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Consumption Value

(2019-2030)

4.5 South America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030)

4.6 Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2030)

5.2 Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Type (2019-2030)

5.3 Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2030)

6.2 Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Application (2019-2030)

6.3 Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

7.1 North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2030)

7.2 North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2030)

7.3 North America Automotive Grade 4D Digital Imaging Radar Chip Market Size by Country

7.3.1 North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2019-2030)

7.3.2 North America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

8.1 Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2030)

8.2 Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2030)

8.3 Europe Automotive Grade 4D Digital Imaging Radar Chip Market Size by Country

8.3.1 Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2019-2030)

8.3.2 Europe Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Market Size by Region

9.3.1 Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 South Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

10.1 South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2030)

10.2 South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2030)

10.3 South America Automotive Grade 4D Digital Imaging Radar Chip Market Size by Country

10.3.1 South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2019-2030)

10.3.2 South America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Market Size by Country

11.3.1 Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

12.1 Automotive Grade 4D Digital Imaging Radar Chip Market Drivers

12.2 Automotive Grade 4D Digital Imaging Radar Chip Market Restraints

12.3 Automotive Grade 4D Digital Imaging Radar Chip Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers



12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Automotive Grade 4D Digital Imaging Radar Chip and Key Manufacturers

13.2 Manufacturing Costs Percentage of Automotive Grade 4D Digital Imaging Radar Chip

13.3 Automotive Grade 4D Digital Imaging Radar Chip Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Automotive Grade 4D Digital Imaging Radar Chip Typical Distributors

14.3 Automotive Grade 4D Digital Imaging Radar Chip Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 4. NXP Semiconductors Major Business

Table 5. NXP Semiconductors Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 6. NXP Semiconductors Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. NXP Semiconductors Recent Developments/Updates

Table 8. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 9. Texas Instruments Major Business

Table 10. Texas Instruments Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 11. Texas Instruments Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Texas Instruments Recent Developments/Updates

Table 13. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 14. STMicroelectronics Major Business

Table 15. STMicroelectronics Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 16. STMicroelectronics Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. STMicroelectronics Recent Developments/Updates

Table 18. Infineon Basic Information, Manufacturing Base and Competitors

Table 19. Infineon Major Business

Table 20. Infineon Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 21. Infineon Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Infineon Recent Developments/Updates

Table 23. Uhnder Basic Information, Manufacturing Base and Competitors

Table 24. Uhnder Major Business

Table 25. Uhnder Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 26. Uhnder Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Uhnder Recent Developments/Updates

Table 28. AKM (Asahi Kasei Microdevices) Basic Information, Manufacturing Base and Competitors

Table 29. AKM (Asahi Kasei Microdevices) Major Business

Table 30. AKM (Asahi Kasei Microdevices) Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 31. AKM (Asahi Kasei Microdevices) Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. AKM (Asahi Kasei Microdevices) Recent Developments/Updates

Table 33. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 34. Analog Devices Major Business

Table 35. Analog Devices Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 36. Analog Devices Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Analog Devices Recent Developments/Updates

Table 38. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 39. Renesas Electronics Major Business

Table 40. Renesas Electronics Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 41. Renesas Electronics Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Renesas Electronics Recent Developments/Updates

Table 43. Onsemi Basic Information, Manufacturing Base and Competitors

Table 44. Onsemi Major Business

Table 45. Onsemi Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 46. Onsemi Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K

Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Onsemi Recent Developments/Updates

Table 48. Calterah Basic Information, Manufacturing Base and Competitors

Table 49. Calterah Major Business

Table 50. Calterah Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 51. Calterah Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Calterah Recent Developments/Updates

Table 53. ANDAR TECHNOLOGIES CO., LTD Basic Information, Manufacturing Base and Competitors

Table 54. ANDAR TECHNOLOGIES CO., LTD Major Business

Table 55. ANDAR TECHNOLOGIES CO., LTD Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 56. ANDAR TECHNOLOGIES CO., LTD Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. ANDAR TECHNOLOGIES CO., LTD Recent Developments/Updates

Table 58. SGR Semiconductors Basic Information, Manufacturing Base and Competitors

Table 59. SGR Semiconductors Major Business

Table 60. SGR Semiconductors Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 61. SGR Semiconductors Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. SGR Semiconductors Recent Developments/Updates

Table 63. Microcreative Basic Information, Manufacturing Base and Competitors

Table 64. Microcreative Major Business

Table 65. Microcreative Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 66. Microcreative Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Microcreative Recent Developments/Updates

Table 68. Senardmicro Basic Information, Manufacturing Base and Competitors

Table 69. Senardmicro Major Business

Table 70. Senardmicro Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 71. Senardmicro Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. Senardmicro Recent Developments/Updates

Table 73. Citta Microelectronics Ltd. Basic Information, Manufacturing Base and Competitors

Table 74. Citta Microelectronics Ltd. Major Business

Table 75. Citta Microelectronics Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 76. Citta Microelectronics Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Citta Microelectronics Ltd. Recent Developments/Updates

Table 78. Imsemi Basic Information, Manufacturing Base and Competitors

Table 79. Imsemi Major Business

Table 80. Imsemi Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 81. Imsemi Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 82. Imsemi Recent Developments/Updates

Table 83. Guibu Microelectronics (Nanjing) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 84. Guibu Microelectronics (Nanjing) Co., Ltd. Major Business

Table 85. Guibu Microelectronics (Nanjing) Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 86. Guibu Microelectronics (Nanjing) Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 87. Guibu Microelectronics (Nanjing) Co., Ltd. Recent Developments/Updates

Table 88. Huizhou Speed Wireless Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 89. Huizhou Speed Wireless Technology Co., Ltd. Major Business

Table 90. Huizhou Speed Wireless Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 91. Huizhou Speed Wireless Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD

Million), Gross Margin and Market Share (2019-2024)

Table 92. Huizhou Speed Wireless Technology Co., Ltd. Recent Developments/Updates

Table 93. Sichuan Jiuzhou Electric Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Sichuan Jiuzhou Electric Co., Ltd. Major Business

Table 95. Sichuan Jiuzhou Electric Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 96. Sichuan Jiuzhou Electric Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 97. Sichuan Jiuzhou Electric Co., Ltd. Recent Developments/Updates

Table 98. Mistic Microelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 99. Mistic Microelectronics Co., Ltd. Major Business

Table 100. Mistic Microelectronics Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 101. Mistic Microelectronics Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 102. Mistic Microelectronics Co., Ltd. Recent Developments/Updates

Table 103. Chengdu Sinoscite Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 104. Chengdu Sinoscite Technology Co., Ltd. Major Business

Table 105. Chengdu Sinoscite Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 106. Chengdu Sinoscite Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 107. Chengdu Sinoscite Technology Co., Ltd. Recent Developments/Updates

Table 108. Qingneng Huabo (Beijing) Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 109. Qingneng Huabo (Beijing) Technology Co., Ltd. Major Business

Table 110. Qingneng Huabo (Beijing) Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 111. Qingneng Huabo (Beijing) Technology Co., Ltd. Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 112. Qingneng Huabo (Beijing) Technology Co., Ltd. Recent

## Developments/Updates

Table 113. Milliway Basic Information, Manufacturing Base and Competitors

Table 114. Milliway Major Business

Table 115. Milliway Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 116. Milliway Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 117. Milliway Recent Developments/Updates

Table 118. Muye Microelectronics Basic Information, Manufacturing Base and Competitors

Table 119. Muye Microelectronics Major Business

Table 120. Muye Microelectronics Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 121. Muye Microelectronics Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 122. Muye Microelectronics Recent Developments/Updates

Table 123. Hxele Basic Information, Manufacturing Base and Competitors

Table 124. Hxele Major Business

Table 125. Hxele Automotive Grade 4D Digital Imaging Radar Chip Product and Services

Table 126. Hxele Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (K Pcs), Average Price (US\$/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 127. Hxele Recent Developments/Updates

Table 128. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Manufacturer (2019-2024) & (K Pcs)

Table 129. Global Automotive Grade 4D Digital Imaging Radar Chip Revenue by Manufacturer (2019-2024) & (USD Million)

Table 130. Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Manufacturer (2019-2024) & (US\$/Pc)

Table 131. Market Position of Manufacturers in Automotive Grade 4D Digital Imaging Radar Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2023

Table 132. Head Office and Automotive Grade 4D Digital Imaging Radar Chip Production Site of Key Manufacturer

Table 133. Automotive Grade 4D Digital Imaging Radar Chip Market: Company Product Type Footprint

Table 134. Automotive Grade 4D Digital Imaging Radar Chip Market: Company Product

## Application Footprint

Table 135. Automotive Grade 4D Digital Imaging Radar Chip New Market Entrants and Barriers to Market Entry

Table 136. Automotive Grade 4D Digital Imaging Radar Chip Mergers, Acquisition, Agreements, and Collaborations

Table 137. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Region (2019-2023-2030) & (USD Million) & CAGR

Table 138. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Region (2019-2024) & (K Pcs)

Table 139. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Region (2025-2030) & (K Pcs)

Table 140. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Region (2019-2024) & (USD Million)

Table 141. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Region (2025-2030) & (USD Million)

Table 142. Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Region (2019-2024) & (US\$/Pc)

Table 143. Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Region (2025-2030) & (US\$/Pc)

Table 144. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 145. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 146. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Type (2019-2024) & (USD Million)

Table 147. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Type (2025-2030) & (USD Million)

Table 148. Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Type (2019-2024) & (US\$/Pc)

Table 149. Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Type (2025-2030) & (US\$/Pc)

Table 150. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 151. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 152. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Application (2019-2024) & (USD Million)

Table 153. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Application (2025-2030) & (USD Million)



Table 154. Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Application (2019-2024) & (US\$/Pc)

Table 155. Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Application (2025-2030) & (US\$/Pc)

Table 156. North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 157. North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 158. North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 159. North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 160. North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2019-2024) & (K Pcs)

Table 161. North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2025-2030) & (K Pcs)

Table 162. North America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2019-2024) & (USD Million)

Table 163. North America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2025-2030) & (USD Million)

Table 164. Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 165. Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 166. Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 167. Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 168. Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2019-2024) & (K Pcs)

Table 169. Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2025-2030) & (K Pcs)

Table 170. Europe Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2019-2024) & (USD Million)

Table 171. Europe Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2025-2030) & (USD Million)

Table 172. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 173. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales

Quantity by Type (2025-2030) & (K Pcs)

Table 174. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales

Quantity by Application (2019-2024) & (K Pcs)

Table 175. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales

Quantity by Application (2025-2030) & (K Pcs)

Table 176. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales

Quantity by Region (2019-2024) & (K Pcs)

Table 177. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales

Quantity by Region (2025-2030) & (K Pcs)

Table 178. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Region (2019-2024) & (USD Million)

Table 179. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Region (2025-2030) & (USD Million)

Table 180. South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 181. South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 182. South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 183. South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 184. South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2019-2024) & (K Pcs)

Table 185. South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2025-2030) & (K Pcs)

Table 186. South America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2019-2024) & (USD Million)

Table 187. South America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2025-2030) & (USD Million)

Table 188. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 189. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 190. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 191. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 192. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2019-2024) & (K Pcs)

Table 193. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity by Country (2025-2030) & (K Pcs)

Table 194. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2019-2024) & (USD Million)

Table 195. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Country (2025-2030) & (USD Million)

Table 196. Automotive Grade 4D Digital Imaging Radar Chip Raw Material

Table 197. Key Manufacturers of Automotive Grade 4D Digital Imaging Radar Chip Raw Materials

Table 198. Automotive Grade 4D Digital Imaging Radar Chip Typical Distributors

Table 199. Automotive Grade 4D Digital Imaging Radar Chip Typical Customers  
List of Figures

Figure 1. Automotive Grade 4D Digital Imaging Radar Chip Picture

Figure 2. Global Automotive Grade 4D Digital Imaging Radar Chip Revenue by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Automotive Grade 4D Digital Imaging Radar Chip Revenue Market Share by Type in 2023

Figure 4. 77GHz Millimeter Wave Radar Chip Examples

Figure 5. 24GHz Millimeter Wave Radar Chip Examples

Figure 6. Others (60/80GHz) Examples

Figure 7. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global Automotive Grade 4D Digital Imaging Radar Chip Revenue Market Share by Application in 2023

Figure 9. Driverless Car Examples

Figure 10. UAV Examples

Figure 11. Intelligent Transportation Examples

Figure 12. Intelligent Home Examples

Figure 13. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 14. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 15. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity (2019-2030) & (K Pcs)

Figure 16. Global Automotive Grade 4D Digital Imaging Radar Chip Price (2019-2030) & (US\$/Pc)

Figure 17. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Manufacturer in 2023

Figure 18. Global Automotive Grade 4D Digital Imaging Radar Chip Revenue Market

Share by Manufacturer in 2023

Figure 19. Producer Shipments of Automotive Grade 4D Digital Imaging Radar Chip by Manufacturer Sales (\$MM) and Market Share (%): 2023

Figure 20. Top 3 Automotive Grade 4D Digital Imaging Radar Chip Manufacturer (Revenue) Market Share in 2023

Figure 21. Top 6 Automotive Grade 4D Digital Imaging Radar Chip Manufacturer (Revenue) Market Share in 2023

Figure 22. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Region (2019-2030)

Figure 23. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value Market Share by Region (2019-2030)

Figure 24. North America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 25. Europe Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 26. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 27. South America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 28. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 29. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Type (2019-2030)

Figure 30. Global Automotive Grade 4D Digital Imaging Radar Chip Consumption Value Market Share by Type (2019-2030)

Figure 31. Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Type (2019-2030) & (US\$/Pc)

Figure 32. Global Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Application (2019-2030)

Figure 33. Global Automotive Grade 4D Digital Imaging Radar Chip Revenue Market Share by Application (2019-2030)

Figure 34. Global Automotive Grade 4D Digital Imaging Radar Chip Average Price by Application (2019-2030) & (US\$/Pc)

Figure 35. North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Type (2019-2030)

Figure 36. North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Application (2019-2030)

Figure 37. North America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Country (2019-2030)

Figure 38. North America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value Market Share by Country (2019-2030)

Figure 39. United States Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 40. Canada Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 41. Mexico Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 42. Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Type (2019-2030)

Figure 43. Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Application (2019-2030)

Figure 44. Europe Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Country (2019-2030)

Figure 45. Europe Automotive Grade 4D Digital Imaging Radar Chip Consumption Value Market Share by Country (2019-2030)

Figure 46. Germany Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 47. France Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 48. United Kingdom Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 49. Russia Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 50. Italy Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 51. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Type (2019-2030)

Figure 52. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Application (2019-2030)

Figure 53. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Region (2019-2030)

Figure 54. Asia-Pacific Automotive Grade 4D Digital Imaging Radar Chip Consumption Value Market Share by Region (2019-2030)

Figure 55. China Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 56. Japan Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 57. South Korea Automotive Grade 4D Digital Imaging Radar Chip Consumption

Value (2019-2030) & (USD Million)

Figure 58. India Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 59. Southeast Asia Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 60. Australia Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 61. South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Type (2019-2030)

Figure 62. South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Application (2019-2030)

Figure 63. South America Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Country (2019-2030)

Figure 64. South America Automotive Grade 4D Digital Imaging Radar Chip Consumption Value Market Share by Country (2019-2030)

Figure 65. Brazil Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 66. Argentina Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 67. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Type (2019-2030)

Figure 68. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Application (2019-2030)

Figure 69. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Sales Quantity Market Share by Country (2019-2030)

Figure 70. Middle East & Africa Automotive Grade 4D Digital Imaging Radar Chip Consumption Value Market Share by Country (2019-2030)

Figure 71. Turkey Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 72. Egypt Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 73. Saudi Arabia Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 74. South Africa Automotive Grade 4D Digital Imaging Radar Chip Consumption Value (2019-2030) & (USD Million)

Figure 75. Automotive Grade 4D Digital Imaging Radar Chip Market Drivers

Figure 76. Automotive Grade 4D Digital Imaging Radar Chip Market Restraints

Figure 77. Automotive Grade 4D Digital Imaging Radar Chip Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Automotive Grade 4D Digital Imaging Radar Chip in 2023

Figure 80. Manufacturing Process Analysis of Automotive Grade 4D Digital Imaging Radar Chip

Figure 81. Automotive Grade 4D Digital Imaging Radar Chip Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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