

Cloud Robotics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global cloud robotics market size reached US\$ 4.87 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 16.64 Billion by 2027, exhibiting a growth rate (CAGR) of 20.50% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Cloud robotics is a robotics field involving robots, automation systems, cloud computing, deep learning, big data, the internet of things (IoT), and other emerging technologies that focus on centralized infrastructure and shared services. It allows robots to benefit from the storage and communications resources of modern data centers, share data and code, and perform computation. It also helps remove maintenance and updates overhead and reduce dependence on custom middleware. Nowadays, organizations worldwide are increasingly relying on cloud robotics as it enables a high level of human-robot interaction and learning and contributes to digital transformation.

Cloud Robotics Market Trends:

Cloud robotics allows robots to access vast amounts of processing and rapidly increasing data transfer to offload compute-intensive tasks like image processing, voice recognition, and downloading new skills instantly. This, in confluence with the rising focus on industrial automation and digitization of businesses, represents one of the primary factors impelling the market growth. Apart from this, the rising traction of autonomous cars is driving the adoption of cloud robotics in the automotive industry to index maps, images, and data on prior driving trajectories, weather, and traffic; determine spatial localization; and make decisions. Moreover, cloud robotics is gaining

widespread adoption to enable warehouse and logistics automation using mobile platforms and a local network to move pallets, coordinate platforms, and share updates in real-time. Furthermore, key players are launching innovative solutions that can handle computationally heavy tasks, enable power and cognitive collaboration, and increase the available data to share with other machines and humans. This, in turn, is anticipated to expand the application of cloud robotics in the healthcare, mining, agriculture, and construction industries across the globe.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global cloud robotics market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on component, connectivity, deployment mode and application.

Breakup by Component:

- Hardware
- Software
- Services

Breakup by Connectivity:

- 3G
- Bluetooth
- Wi-Fi
- 4G
- 5G
- RF
- Infrared

Breakup by Deployment Mode:

- Public Cloud
- Private Cloud
- Hybrid Cloud

Breakup by Application:

- Industrial Cloud Robotics

Service Cloud Robotics
Personal Service Cloud Robotics

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Group, Calvary Robotics, CloudMinds, FANUC Corporation, inVia Robotics Inc., Kuka AG (Midea Group), Ortelio Ltd, Rapyuta Robotics Co. Ltd., Universal Robots A/S (Teradyne Inc.), V3 Smart Technologies and Yaskawa Electric Corporation.

Key Questions Answered in This Report:

How has the global cloud robotics market performed so far and how will it perform in the

coming years?

What has been the impact of COVID-19 on the global cloud robotics market?

What are the key regional markets?

What is the breakup of the market based on the component?

What is the breakup of the market based on the connectivity?

What is the breakup of the market based on the deployment mode?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global cloud robotics market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL CLOUD ROBOTICS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY COMPONENT

- 6.1 Hardware
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Software
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Services

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

7 MARKET BREAKUP BY CONNECTIVITY

- 7.1 3G
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Bluetooth
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Wi-Fi
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 4G
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 5G
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 7.6 RF
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast
- 7.7 Infrared
 - 7.7.1 Market Trends
 - 7.7.2 Market Forecast

8 MARKET BREAKUP BY DEPLOYMENT MODE

- 8.1 Public Cloud
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Private Cloud
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Hybrid Cloud
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast

9 MARKET BREAKUP BY APPLICATION

9.1 Industrial Cloud Robotics

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Service Cloud Robotics

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 Personal Service Cloud Robotics

9.3.1 Market Trends

9.3.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

10.1.1 United States

10.1.1.1 Market Trends

10.1.1.2 Market Forecast

10.1.2 Canada

10.1.2.1 Market Trends

10.1.2.2 Market Forecast

10.2 Asia-Pacific

10.2.1 China

10.2.1.1 Market Trends

10.2.1.2 Market Forecast

10.2.2 Japan

10.2.2.1 Market Trends

10.2.2.2 Market Forecast

10.2.3 India

10.2.3.1 Market Trends

10.2.3.2 Market Forecast

10.2.4 South Korea

10.2.4.1 Market Trends

10.2.4.2 Market Forecast

10.2.5 Australia

10.2.5.1 Market Trends

10.2.5.2 Market Forecast

10.2.6 Indonesia

10.2.6.1 Market Trends

- 10.2.6.2 Market Forecast
- 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country

10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 ABB Group
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 Financials
 - 15.3.1.4 SWOT Analysis
 - 15.3.2 Calvary Robotics
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.3 CloudMinds
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio

- 15.3.4 FANUC Corporation
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
- 15.3.5 inVia Robotics Inc.
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
- 15.3.6 Kuka AG (Midea Group)
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials
 - 15.3.6.4 SWOT Analysis
- 15.3.7 Ortelio Ltd
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
- 15.3.8 Rapyuta Robotics Co. Ltd.
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
- 15.3.9 Universal Robots A/S (Teradyne Inc.)
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
- 15.3.10 V3 Smart Technologies
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
- 15.3.11 Yaskawa Electric Corporation
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
 - 15.3.11.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: Cloud Robotics Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Cloud Robotics Market Forecast: Breakup by Component (in Million US\$), 2022-2027

Table 3: Global: Cloud Robotics Market Forecast: Breakup by Connectivity (in Million US\$), 2022-2027

Table 4: Global: Cloud Robotics Market Forecast: Breakup by Deployment Mode (in Million US\$), 2022-2027

Table 5: Global: Cloud Robotics Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 6: Global: Cloud Robotics Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 7: Global: Cloud Robotics Market: Competitive Structure

Table 8: Global: Cloud Robotics Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Cloud Robotics Market: Major Drivers and Challenges

Figure 2: Global: Cloud Robotics Market: Sales Value (in Billion US\$), 2016-2021

Figure 3: Global: Cloud Robotics Market Forecast: Sales Value (in Billion US\$), 2022-2027

Figure 4: Global: Cloud Robotics Market: Breakup by Component (in %), 2021

Figure 5: Global: Cloud Robotics Market: Breakup by Connectivity (in %), 2021

Figure 6: Global: Cloud Robotics Market: Breakup by Deployment Mode (in %), 2021

Figure 7: Global: Cloud Robotics Market: Breakup by Application (in %), 2021

Figure 8: Global: Cloud Robotics Market: Breakup by Region (in %), 2021

Figure 9: Global: Cloud Robotics (Hardware) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 10: Global: Cloud Robotics (Hardware) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 11: Global: Cloud Robotics (Software) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 12: Global: Cloud Robotics (Software) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 13: Global: Cloud Robotics (Services) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 14: Global: Cloud Robotics (Services) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 15: Global: Cloud Robotics (3G) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 16: Global: Cloud Robotics (3G) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 17: Global: Cloud Robotics (Bluetooth) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 18: Global: Cloud Robotics (Bluetooth) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 19: Global: Cloud Robotics (Wi-Fi) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: Cloud Robotics (Wi-Fi) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: Cloud Robotics (4G) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Global: Cloud Robotics (4G) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: Global: Cloud Robotics (5G) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: Global: Cloud Robotics (5G) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: Global: Cloud Robotics (RF) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: Global: Cloud Robotics (RF) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Global: Cloud Robotics (Infrared) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Global: Cloud Robotics (Infrared) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Global: Cloud Robotics (Public Cloud) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Global: Cloud Robotics (Public Cloud) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: Global: Cloud Robotics (Private Cloud) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: Global: Cloud Robotics (Private Cloud) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Global: Cloud Robotics (Hybrid Cloud) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Global: Cloud Robotics (Hybrid Cloud) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: Global: Cloud Robotics (Industrial Cloud Robotics) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: Global: Cloud Robotics (Industrial Cloud Robotics) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: Global: Cloud Robotics (Service Cloud Robotics) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: Global: Cloud Robotics (Service Cloud Robotics) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: Global: Cloud Robotics (Personal Service Cloud Robotics) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: Global: Cloud Robotics (Personal Service Cloud Robotics) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: North America: Cloud Robotics Market: Sales Value (in Million US\$), 2016 &

2021

Figure 42: North America: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 43: United States: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: United States: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: Canada: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: Canada: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: Asia-Pacific: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: Asia-Pacific: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: China: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: China: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: Japan: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: Japan: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: India: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: India: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: South Korea: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: South Korea: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: Australia: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: Australia: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: Indonesia: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: Indonesia: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: Others: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Others: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: Europe: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: Europe: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: Germany: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: Germany: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: France: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: France: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 69: United Kingdom: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 70: United Kingdom: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 71: Italy: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 72: Italy: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 73: Spain: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 74: Spain: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 75: Russia: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 76: Russia: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 77: Others: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 78: Others: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 79: Latin America: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 80: Latin America: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 81: Brazil: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 82: Brazil: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 83: Mexico: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 84: Mexico: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 85: Others: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 86: Others: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 87: Middle East and Africa: Cloud Robotics Market: Sales Value (in Million US\$), 2016 & 2021

Figure 88: Middle East and Africa: Cloud Robotics Market: Breakup by Country (in %), 2021

Figure 89: Middle East and Africa: Cloud Robotics Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 90: Global: Cloud Robotics Industry: SWOT Analysis

Figure 91: Global: Cloud Robotics Industry: Value Chain Analysis

Figure 92: Global: Cloud Robotics Industry: Porter's Five Forces Analysis

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