

Cellular IoT Market Report by Component (Hardware, Software), Type (2G, 3G, 4G, LTE-M, NB-LTE-M, NB-IoT, 5G), End Use (Agriculture, Automotive and Transportation, Consumer Electronics, Energy, Environment Monitoring, Healthcare, Retail, Smart Cities, and Others), and Region 2024-2032

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Abstracts

The global cellular IoT market size reached US\$ 5.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 25.4 Billion by 2032, exhibiting a growth rate (CAGR) of 18.2% during 2024-2032.

Cellular Internet of Things (IoT) refers to the integration of telecommunication devices with the internet. It utilizes advanced technologies, such as 3G, 4G, 5G and Low Power Wide Area (LPWA), for establishing reliable connections through various hardware devices and sensors. It is widely used for asset, warehouse and workforce management, remote plant monitoring, automation, cloud-based robotics, traffic management and telematics in smartwatches and fitness bands. Cellular IoT solutions simplify global deployment, establish a secured connection with other shared networks and support both low and high bandwidths. As a result, they find extensive applications across various industries, including agriculture, environment monitoring, healthcare, manufacturing, automotive and energy.

Cellular IoT Market Trends:

Significant growth in the telecommunications industry across the globe is one of the key factors creating a positive outlook for the market. Moreover, rapid digitization and the increasing requirement for automation across industries are providing a thrust to the market growth. Medium and large-scale organizations are widely adopting Narrowband

Internet of Things (NB-IoT) and Long-Term Evolution for Machines (LTE-M) solutions. These technologies can be integrated with the existing mobile networks to provide enhanced end-to-end security, device-level access and authentication and encrypted data transfer. Additionally, integration of the IoT, embedded sensors, Wi-Fi and Bluetooth with automobile systems are acting as other growth-inducing factors. Automotive manufacturers combine wireless communication into both luxury and economy vehicles to facilitate in-vehicle communication, vehicle-to-vehicle communication and vehicle-to-infrastructure communication. In line with this, these technologies are also used for smart metering, weather monitoring, infrastructure security and flood and agricultural management. Other factors, including increasing commercialization of 5G, along with significant infrastructural developments, especially in the developing economies, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global cellular IoT market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on component, type and end use.

Breakup by Component:

- Hardware
- Software
- Device Management
- Signal Processing

Breakup by Type:

- 2G
- 3G
- 4G
- LTE-M
- NB-LTE-M
- NB-IoT
- 5G

Breakup by End Use:

- Agriculture

Automotive and Transportation
Consumer Electronics
Energy
Environment Monitoring
Healthcare
Retail
Smart Cities
Others

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 Arm Limited, Commsolid GmbH (Goodix Technology

(HK) Company Limited), MediaTek Inc., Qualcomm Incorporated, Sequans Communications, Sierra Wireless, Telefonaktiebolaget LM Ericsson, Telit, Texas Instruments Incorporated, Thales Group, U-Blox Holding AG and ZTE Corporation.

Key Questions Answered in This Report

1. What is the market size of cellular IoT?
2. What are the benefits of cellular technology?
3. What is the future of cellular IoT?
4. What are the application of cellular IoT?
5. What is the expected growth rate of the global cellular IoT market during 2024-2032?
6. What are the segments of cellular IoT?
7. What are the key factors driving the global cellular IoT market?
8. What has been the impact of COVID-19 on the global cellular IoT market?
9. What is the breakup of the global cellular IoT market based on the component?
10. What is the breakup of the global cellular IoT market based on the type?
11. What is the breakup of the global cellular IoT market based on the end use?
12. What are the key regions in the global cellular IoT market?
13. Who are the key players/companies in the global cellular IoT market?

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