

5G Internet of Things (IoT) Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Hardware, Software, Services), By IoT Connectivity (Sub-Massive IoT, Broadband IoT, Critical IoT, Industrial Automation IoT), By Network Architecture (5G Non-Standalone, 5G Standalone), By Vertical (Manufacturing, Smart Cities, Energy & Utilities, Transportation & Logistics, Enterprises/Corporates, Healthcare, Oil & Gas, Others), By Region & Competition, 2021-2031F

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Report description:

Market Overview

The Global 5G Internet of Things (IoT) Market will grow from USD 5.67 Billion in 2025 to USD 68.42 Billion by 2031 at a 51.45% CAGR. The Global 5G Internet of Things Market consists of integrating fifth generation cellular technology with connected devices to enable high speed and reliable communication across massive machine networks.

Key Market Drivers

The proliferation of Industry 4.0 and smart manufacturing automation stands as a primary catalyst for the Global 5G Internet of Things (IoT) Market, driving the integration of hyper-connected sensors and autonomous robotics. Manufacturers are increasingly transitioning from legacy wiring to cellular-enabled environments to support digital twins and predictive maintenance, which require the high bandwidth and low latency that 5G provides. This shift is financially motivated by the rapid operational gains realized through modernized connectivity.

Key Market Challenges

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The high cost and technical complexity associated with deploying Standalone 5G infrastructure acts as a substantial barrier to the growth of the Global 5G IoT Market. Unlike Non-Standalone architectures that leverage existing 4G cores, Standalone 5G requires a complete overhaul of the network core to cloud-native standards. This specific infrastructure is a prerequisite for supporting network slicing and ultra-reliable low-latency communications, which are the primary features demanded by critical industrial and healthcare sectors. Without widespread access to this architecture, enterprises cannot utilize the advanced automation and remote monitoring capabilities that drive market demand.

Key Market Trends

The Adoption of 5G Reduced Capability (RedCap) Technology is rapidly establishing itself as a critical development for bridging the gap between high-speed 5G and low-power wide-area networks. This standard addresses the specific requirements of mid-tier IoT devices, such as wearables and industrial sensors, which do not demand the full ultra-broadband capabilities of standard 5G but require better performance than legacy low-power solutions.

Key Market Players

- [] Nokia Corporation
- [] ZTE Corporation
- [] AT&T INC.
- [] Huawei Technologies Co., Ltd.
- [] Verizon Communications Inc.
- [] Thales Group
- [] Vodafone Group Plc.
- [] China Mobile Limited
- [] Microsoft Corporation
- [] Kinetics Noise Control, Inc

Report Scope:

In this report, the Global 5G Internet of Things (IoT) Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- [] 5G Internet of Things (IoT) Market, By Component:

- o [] Hardware
- o [] Software
- o [] Services

- [] 5G Internet of Things (IoT) Market, By IoT Connectivity:

- o [] Sub-Massive IoT
- o [] Broadband IoT
- o [] Critical IoT
- o [] Industrial Automation IoT

- [] 5G Internet of Things (IoT) Market, By Network Architecture:

- o [] 5G Non-Standalone
- o [] 5G Standalone

- [] 5G Internet of Things (IoT) Market, By Vertical:

- o [] Manufacturing
- o [] Smart Cities
- o [] Energy & Utilities
- o [] Transportation & Logistics
- o [] Enterprises/Corporates
- o [] Healthcare
- o [] Oil & Gas
- o [] Others

- [] 5G Internet of Things (IoT) Market, By Region:

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o North America

- United States

- Canada

- Mexico

o Europe

- France

- United Kingdom

- Italy

- Germany

- Spain

o Asia Pacific

- China

- India

- Japan

- Australia

- South Korea

o South America

- Brazil

- Argentina

- Colombia

o Middle East & Africa

- South Africa

- Saudi Arabia

- UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global 5G Internet of Things (IoT) Market.

Available Customizations:

Global 5G Internet of Things (IoT) Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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