

Machine-to-machine (M2M) Connections Market by Technology (Wired, Wireless), End-user Industry (Automotive & Transportation, Utilities, Security & Surveillance, Healthcare, Retail, Consumer Electronics) and Region - Global Forecast to 2029

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Abstracts

The machine-to-machine (M2M) connections market is projected to grow from USD 2.9 billion units in 2024 to USD 5.3 billion units by 2029, registering a CAGR of 12.7% during the forecast period. Some of the major factors driving the growth of the machine-to-machine (M2M) connections market include the growing penetration of the Internet, increasing M2M connections among various industry verticals, and growing adoption of 4G/LTE cellular technologies and rising demand for extended network coverage, and increasing penetration of machine-to-machine (M2M) connections in advanced & portable healthcare equipment. However, privacy and security act as a challenge for the market in the future. The major growth opportunities for the market players are the emergence of M2M devices in telemedicine and the growing trend of cloud platforms and big data analytics.

'Market for Utilities expected to have the second highest share during the forecast period.'

The utility segment of the machine-to-machine (M2M) connections market is expected to witness the second highest share during the forecast period. Utilities have long been a noticeable sector to deploy M2M technology to drive power efficiency – especially with initiatives such as the deployment of smart meters, which is an early step towards the formation of smart grids. With appropriate LPWAN hardware (LoRaWAN, Sigfox, and Cat M1/NB-IoT) for low data rate remote monitoring requirements, M2M connectivity supports utilities. LPWAN technologies are driving many metering and monitoring use

cases, delivering inexpensive hardware and use costs, large area coverage and an ability to operate a device for 5+ years off batteries. Factors such as the deployment of intelligent grid management and smart meters will augment the market growth rate of this segment during the forecast period.

'Wireless segment expected to register the highest CAGR during the forecast period.'

The machine-to-machine (M2M) connections market's wireless segment is expected to account for the highest CAGR in the forecast period. The advancements in satellite technologies and mesh networking solutions are expanding coverage and offering alternative connectivity options. In addition, the increasing role of cloud computing and edge computing is also shaping the landscape. Cloud platforms offer centralized data storage, analytics, and application management, while edge computing enables real-time decision-making and processing closer to the data source, minimizing latency and optimizing performance.

'North America to account for the highest market share among other regions in 2023.'

In 2023, North America accounted for the largest share of the machine-to-machine (M2M) connections market. The US is the major contributor to the growth of the machine-to-machine (M2M) connections market in North America. In the US, R&D at both academic and industry levels is broadening the application areas of machine-to-machine communication and the Internet of Things in different industries such as consumer electronics, energy & power, manufacturing, automotive & transportation, and healthcare. Initiatives taken by governments of various countries in North America to promote the adoption of the Internet of Things technology in different industrial and consumer applications are facilitating the key players in the M2M connections market to develop technologies that support the IoT ecosystem. For example, The GSMA Connected Living program is an initiative to help operators add value and accelerate the delivery of new connected devices and services in the M2M connections market.

In determining and verifying the market size for several segments and subsegments gathered through extensive secondary research, primary interviews have been conducted with key industry experts in the machine-to-machine (M2M) connections market.

The break-up of primary participants for the report has been shown below:

By company type: Tier 1 - 38%, Tier 2 - 28%, and Tier 3 - 34%

By designation: C-Level Executives - 40%, Managers - 30%, and Others - 30%

By region: North America - 35%, Europe - 20%, Asia Pacific - 35%, and RoW - 10%

The report profiles key players in the machine-to-machine (M2M) connections market with their respective market ranking analyses. Prominent players profiled in this report include AT&T Intellectual Property (US), Cisco Systems, Inc. (US), Huawei Technologies (China), NXP Semiconductors N.V. (Netherlands), Texas Instruments Incorporated (US), Intel Corporation (US), China Mobile International Limited (China), Thales (France), Vodafone Group Plc (UK), Murata Manufacturing Co., Ltd. (Japan), and U-Blox Holding AG (Switzerland), among others.

Research Coverage

This research report categorizes the machine-to-machine (M2M) connections market based on technology, end-user industry, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the machine-to-machine (M2M) connections market and forecasts the same till 2029. The report also consists of leadership mapping and analysis of companies in the machine-to-machine (M2M) connections ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall machine-to-machine (M2M) connections market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (increasing penetration of internet and IoT devices, increasing support by government towards M2M connections, the development of wireless technologies such as 5G, NB-IoT, and LTE-M, and growing

popularity of smart cities and connected cars), restraints (lack of standardization in connectivity protocols), opportunities (growing trend of cloud platforms and big data analytics and emergence of M2M devices in Telemedicine), and challenges (privacy and security) influencing the growth of the machine-to-machine (M2M) connections market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the machine-to-machine (M2M) connections market

Market Development: Comprehensive information about lucrative markets – the report analyses the machine-to-machine (M2M) connections market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the machine-to-machine (M2M) connections market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product/service offerings of leading players like AT&T Intellectual Property (US), Cisco Systems, Inc. (US), Huawei Technologies (China), NXP Semiconductors N.V. (Netherlands), Texas Instruments Incorporated (US), Intel Corporation (US), China Mobile International Limited (China), Thales (France), Vodafone Group Plc (UK), Murata Manufacturing Co., Ltd. (Japan), and U-Blox Holding AG (Switzerland), among others in the machine-to-machine (M2M) connections market.

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