

Machine-to-Machine (M2M) Connections Market Report by Connection Type (Wired, Wireless), Technology (Serial Connection, Power Line Connection, Cellular, Wi-Fi, Bluetooth, and Others), End Use Industry (Automotive, Healthcare, Consumer Electronics, Transportation, Utilities, Retail, and Others), and Region 2025-2033

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Report description:

The global machine-to-machine (M2M) connections market size reached USD 22.1 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 31.5 Billion by 2033, exhibiting a growth rate (CAGR) of 3.82% during 2025-2033. The growing development of advanced infrastructure in healthcare facilities, increasing demand for automation and effective predictive maintenance systems, and rising adoption of advanced medical devices for remote patient monitoring represent some of the key factors driving the market.

Global Machine-to-Machine (M2M) Connections Market:

Escalating Demand to Automate Various Industrial Processes

The rising demand for automation and effective predictive maintenance systems in several industries to improve operational efficiency and collect real-time data is primarily driving the growth of the global machine-to-machine (M2) connections market. Moreover, various developing nations are realizing the importance of M2M and are, therefore, increasingly taking initiatives to integrate M2M connections in both public and private sectors. For instance, in February 2022, the Government of India stated that M2M/Internet of Things (IoT) is one of the most rapidly developing technologies worldwide, offering a wealth of advantageous potential for society, businesses, and consumers. The government initiative encourages greater use and innovation in the machine-to-machine (M2M) industry. Besides this, the emerging trend of remote working is also augmenting the need for efficient M2M connections. These solutions have made it easier and more effective to communicate over long distances and between many devices. According to Cisco Systems, by the end of 2023, there were approximately 14.7 billion M2M connections globally. The forecasted compound annual growth rate of connections from 2018 to 2023 is 19%.

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Growing Usage of the Internet

The rising utilization of the internet, along with the increasing penetration of 5G networks, is creating a positive outlook for the overall market. Moreover, the proliferation of internet connectivity has led to reduced costs for data transmission and infrastructure. As a result, it is becoming more feasible for businesses to implement M2M solutions. The cost-effectiveness of using the internet for communication allows for the deployment of M2M solutions on a larger scale. According to Speedtest, as of April 2023, Qatar had the fastest average mobile internet connections globally, nearly 190 Mbps. The United Arab Emirates (UAE) and Macau followed, with each of these countries registering average median speeds above 170 Mbps. Moreover, Telemetry usage in daily items like heating units, electric meters, and internet-connected appliances has grown because of the internet and better wireless technology standards. According to the ITU, Europe had the most significant internet penetration rate among all world regions in 2022, increasing from just under 60% in 2009 to 89% in the most recent year for which data was available. The lowest internet usage rate, at 40%, was found in Africa. Around 4.9 billion people were reportedly online as of the same year, based on total global internet access. Such rapidly growing penetration of the internet is anticipated to increase machine-to-machine (M2M) connections market share.

Emergence of Smart Cities and Connected Cars

The IoT infrastructure in various smart cities is required to handle devices and objects connected via different connectivity methods, several cities are utilizing IoT to enhance services, such as water management, waste management, and energy consumption in various sectors. The escalating adoption of smart technologies in smart connected solutions is creating new business opportunities for cellular M2M connections. Various key market players are increasingly investing in research and development activities to introduce advanced M2M solutions for the development of smart cities. For instance, TeliaSonera launched M2M-in-a-box to help connect businesses. This service is cloud-managed through a web user interface and includes sensors that can be used to connect everything from buildings and shops to vehicles and machinery. Innovations like these will continue to catalyze the growth of the market in the years to come.

Global Machine-to-Machine (M2M) Connections Industry Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global machine-to-machine (M2M) connections market research report, along with forecasts at the global, regional, and country levels from 2025-2033. Our report has categorized the market based on connection type, technology, and end-use industry.

Connection Type Insights:

- Wired
- Wireless

Currently, wireless connections hold the majority of the total market share

The report has provided a detailed breakup and analysis of the machine-to-machine (M2M) connections market based on the connection type. This includes wired and wireless. According to the report, wireless represented the largest segment.

The increasing adoption of IoT solutions for automation, monitoring, and optimization is augmenting the demand for wireless M2M connections. Moreover, various telecommunication authorities are also taking initiatives to expand the adoption of wireless M2M connections. For instance, The Indian Department of Telecommunication announced that Machine-to-Machine (M2M) and Wireless Personal Area Network/Wireless Local Area Network (WPAN/WLAN) registration has been extended to all entities, including businesses, government departments, and partnerships. As a result, M2M wireless connection is anticipated to grow at a rapid pace in the coming years.

Technology Insights:

- Serial Connection
- Power Line Connection
- Cellular
- Wi-Fi
- Bluetooth
- Others

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Cellular technology currently exhibits a clear dominance in the market

A detailed breakup and analysis of the machine-to-machine (M2M) connections market based on the technology has also been provided in the report. This includes serial connection, power line connection, cellular, Wi-Fi, Bluetooth, and others. According to the report, cellular accounted for the largest market share.

End Use Industry Insights:

- Automotive
- Healthcare
- Consumer Electronics
- Transportation
- Utilities
- Retail
- Others

Currently, automotive accounts for the largest market share

A detailed breakup and analysis of the machine-to-machine (M2M) connections market based on the end-use industry has also been provided in the report. This includes automotive, healthcare, consumer electronics, transportation, utilities, retail, and others. According to the report, automotive accounted for the largest market share.

The Internet of Things (IoT) technology is taking over the automotive industry. Connectivity will be the core of the next generation of future vehicles. From real-time connectivity to the mapping of information on the roads, low-latency networks with M2M and IoT are allowing the automobile industry to speed-track its transformation. IoT and M2M are servicing networks and standardization to make a fully automated transportation system a reality.

Regional Insights:

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

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North America holds the largest share of the machine-to-machine (M2M) connections

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America (the United States and Canada) was the largest market for machine-to-machine (M2M) connections.

Some of the prominent telecom sector firms are based in North America in the area, including AT&T, Verizon, Cisco, and many more, who are constantly investing in expanding and improving their infrastructure in order to stay up with technological breakthroughs. Over the projected period, it is anticipated to accelerate the adoption of M2M connections. Furthermore, the number of 5G connections (excluding IoT) in North America will increase from 14% in 2021 to 280 million by 2025, making up 64% of all mobile connections. Moreover, several big companies in the area have been able to improve technology through research and development, strategic alliances, and mergers and acquisitions. For instance, in December 2022, Aeris Communications, a California-based Internet of Things and machine-to-machine (IoT and M2M) communications provider, announced plans to acquire Ericsson's IoT Accelerator and Connected Vehicle Cloud businesses. The agreement is expected to enable Aeris and Ericsson's IoT platforms to link over 100 million IoT devices worldwide in 190 different countries.

Competitive Landscape:

The market research report has provided a comprehensive analysis of the competitive landscape and machine-to-machine (M2M) connections market outlook. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

- AT&T Inc.,
- Cisco Systems Inc.
- Deutsche Telekom AG
- Huawei Technologies Co. Ltd.
- Intel Corporation
- Murata Manufacturing Co. Ltd.
- NXP Semiconductors N.V.
- Telefonica S.A.
- Texas Instruments Incorporated
- U-Blox Holding AG
- Verizon Communication Inc.
- Vodafone Group Plc

Key Questions Answered in This Report

- 1.How big is the M2M market?
- 2.What is the expected growth rate of the global machine-to-machine (M2M) connections market during 2025-2033?
- 3.What has been the impact of COVID-19 on the global machine-to-machine (M2M) connections market?
- 4.What are the key factors driving the global machine-to-machine (M2M) connections market?
- 5.What is the breakup of the global machine-to-machine (M2M) connections market based on the connection type?
- 6.What is the breakup of the global machine-to-machine (M2M) connections market based on the technology?
- 7.What is the breakup of the global machine-to-machine (M2M) connections market based on the end use industry?
- 8.What are the key regions in the global machine-to-machine (M2M) connections market?
- 9.Who are the key players/companies in the global machine-to-machine (M2M) connections market?

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