

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.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET SEGMENTATION

1.3.2 REGIONS COVERED

1.3.3 YEARS CONSIDERED

1.4 INCLUSIONS AND EXCLUSIONS

1.5 CURRENCY CONSIDERED

1.6 UNIT CONSIDERED

1.7 STAKEHOLDERS

1.8 SUMMARY OF CHANGES

1.8.1 RECESSION IMPACT ANALYSIS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Secondary sources

2.1.1.2 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Primary interviewees

2.1.2.2 Key data from primary sources

2.1.2.3 Breakdown of primary interviews

2.1.3 PRIMARY AND SECONDARY RESEARCH

2.1.3.1 Key industry insights

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.2.1.1 Approach to estimate market size using bottom-up analysis (demand-side)

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach to estimate market share using top-down analysis (supply-side)

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.3 DATA TRIANGULATION

FIGURE 5 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.4.1 ASSUMPTIONS FOR RECESSION IMPACT ANALYSIS

2.5 RESEARCH LIMITATIONS

2.6 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 6 WIRELESS SEGMENT TO HOLD LARGEST MARKET SHARE IN 2024

FIGURE 7 CONSUMER ELECTRONICS TO BE DOMINANT SEGMENT (2024–2029)

FIGURE 8 NORTH AMERICA TO BE LARGEST MARKET DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET

FIGURE 9 GROWING ADOPTION OF 4G AND 5G NETWORKS TO DRIVE MARKET

4.2 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY WIRELESS TECHNOLOGY

FIGURE 10 LONG-RANGE COMMUNICATION TO LEAD MARKET DURING FORECAST PERIOD

4.3 NORTH AMERICAN MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER AND COUNTRY

FIGURE 11 AUTOMOTIVE AND TRANSPORTATION AND US HELD LARGEST SHARES OF NORTH AMERICAN MARKET IN 2023

4.4 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY COUNTRY

FIGURE 12 JAPAN TO BE FASTEST-GROWING COUNTRY DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 13 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET DYNAMICS

5.2.1 DRIVERS

FIGURE 14 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET: IMPACT ANALYSIS OF DRIVERS

5.2.1.1 Increasing penetration of internet

FIGURE 15 INTERNET PENETRATION RATE, BY REGION, MARCH 2022

5.2.1.2 Rising government support for M2M connections

5.2.1.3 Growing popularity of smart cities and connected cars

5.2.1.4 Rapid development of wireless technologies

5.2.2 RESTRAINTS

FIGURE 16 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET: IMPACT ANALYSIS OF RESTRAINTS

5.2.2.1 Lack of standardization in connectivity protocols

5.2.3 OPPORTUNITIES

FIGURE 17 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET: IMPACT ANALYSIS OF OPPORTUNITIES

5.2.3.1 Increasing adoption of cloud platforms and big data analytics

5.2.3.2 Integration of M2M devices in telemedicine

5.2.4 CHALLENGES

FIGURE 18 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET: IMPACT ANALYSIS OF CHALLENGES

5.2.4.1 Privacy and security constraints

5.3 VALUE CHAIN ANALYSIS

FIGURE 19 VALUE CHAIN ANALYSIS

5.4 ECOSYSTEM MAPPING

TABLE 1 ROLE OF COMPANIES IN ECOSYSTEM

5.5 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 20 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.6 PRICING ANALYSIS

5.6.1 AVERAGE SELLING PRICE TREND, BY TECHNOLOGY MODULE

TABLE 2 AVERAGE SELLING PRICE TREND, BY TECHNOLOGY MODULE, 2023

FIGURE 21 AVERAGE SELLING PRICE TREND, BY TECHNOLOGY MODULE, 2020–2023

FIGURE 22 AVERAGE SELLING PRICE TREND FOR WI-FI AND BLUETOOTH MODULES, BY KEY PLAYER

TABLE 3 AVERAGE SELLING PRICE TREND FOR WI-FI AND BLUETOOTH MODULES, BY KEY PLAYER (USD)

5.6.2 AVERAGE SELLING PRICE TREND, BY REGION

FIGURE 23 AVERAGE SELLING PRICE TREND, BY REGION

5.7 TECHNOLOGY ANALYSIS

5.7.1 5G M2M CONNECTIONS

5.7.2 ESIM FOR M2M COMMUNICATION

5.8 CASE STUDY ANALYSIS

5.8.1 MULTI-CARRIER NETWORKS

5.8.2 REAL-TIME EQUIPMENT PERFORMANCE DATA

5.8.3 M2M CONNECTIONS FOR FLEET MANAGEMENT

5.9 PATENT ANALYSIS

FIGURE 24 PATENT ANALYSIS

TABLE 4 TOP 20 PATENT OWNERS IN LAST 10 YEARS

TABLE 5 PATENT ANALYSIS

5.10 TRADE DATA ANALYSIS

FIGURE 25 IMPORT DATA FOR HS CODE 851762, BY COUNTRY, 2018–2022 (USD THOUSAND)

FIGURE 26 EXPORT DATA FOR HS CODE 851762, BY COUNTRY, 2018–2022 (USD THOUSAND)

5.11 KEY STAKEHOLDERS AND BUYING CRITERIA

5.11.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 27 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY END USER

TABLE 6 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY END USER (%)

5.11.2 BUYING CRITERIA

FIGURE 28 KEY BUYING CRITERIA, BY END USER

TABLE 7 KEY BUYING CRITERIA, BY END USER

5.12 PORTER'S FIVE FORCES ANALYSIS

FIGURE 29 PORTER'S FIVE FORCES ANALYSIS

TABLE 8 IMPACT OF PORTER'S FIVE FORCES

5.12.1 THREAT OF SUBSTITUTES

5.12.2 THREAT OF NEW ENTRANTS

5.12.3 BARGAINING POWER OF SUPPLIERS

5.12.4 BARGAINING POWER OF BUYERS

5.12.5 INTENSITY OF COMPETITIVE RIVALRY

5.13 KEY CONFERENCES AND EVENTS

TABLE 9 KEY CONFERENCES AND EVENTS, 2024–2025

5.14 TARIFF AND REGULATORY LANDSCAPE

5.14.1 TARIFFS ON M2M CONNECTIONS

TABLE 10 MFN TARIFF FOR HS CODE 851762: COMPLIANT PRODUCTS EXPORTED BY US

TABLE 11 MFN TARIFF FOR HS CODE 851762: COMPLIANT PRODUCTS EXPORTED BY CHINA

5.14.2 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.14.3 REGULATORY STANDARDS FOR M2M CONNECTIONS

TABLE 16 NORTH AMERICA: SAFETY STANDARDS FOR MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET

TABLE 17 EUROPE: SAFETY STANDARDS FOR MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET

TABLE 18 ASIA PACIFIC: SAFETY STANDARDS FOR MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET

TABLE 19 REST OF THE WORLD: SAFETY STANDARDS FOR MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET

6 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY

6.1 INTRODUCTION

FIGURE 30 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY

TABLE 20 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY VALUE AND VOLUME, 2020–2023

TABLE 21 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY VALUE AND VOLUME, 2024–2029

FIGURE 31 WIRELESS SEGMENT TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD

TABLE 22 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 23 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)

6.2 WIRED

TABLE 24 WIRED: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2020–2023 (MILLION UNITS)

TABLE 25 WIRED: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2024–2029 (MILLION UNITS)

TABLE 26 WIRED: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY

REGION, 2020–2023 (MILLION UNITS)

TABLE 27 WIRED: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)

6.2.1 ETHERNET

6.2.1.1 Ability to interconnect various automation systems to drive market

6.2.2 MODBUS

6.2.2.1 Growing adoption of TCP/IP version to drive market

6.2.3 PROFINET

6.2.3.1 Infrastructure and building automation applications to drive market

6.2.4 FOUNDATION FIELDBUS

6.2.4.1 Improved speed, flexibility, and integration with IT systems to drive market

6.3 WIRELESS

FIGURE 32 LONG-RANGE COMMUNICATION TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 28 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TYPE, 2020–2023 (MILLION UNITS)

TABLE 29 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TYPE, 2024–2029 (MILLION UNITS)

TABLE 30 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2020–2023 (MILLION UNITS)

TABLE 31 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2024–2029 (MILLION UNITS)

TABLE 32 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)

TABLE 33 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)

6.3.1 SHORT-RANGE COMMUNICATION

6.3.1.1 Wi-Fi

6.3.1.1.1 Easy accessibility on smartphones, digital cameras, personal computers, and digital audio players to drive market

6.3.1.2 Bluetooth and ZigBee

6.3.1.2.1 Expanding consumer electronics industry to drive market

FIGURE 33 WI-FI SEGMENT TO ACQUIRE HIGHEST MARKET SHARE DURING FORECAST PERIOD

TABLE 34 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY SHORT-RANGE COMMUNICATION, 2020–2023 (MILLION UNITS)

TABLE 35 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY SHORT-RANGE COMMUNICATION, 2024–2029 (MILLION UNITS)

6.3.2 LONG-RANGE COMMUNICATION

FIGURE 34 CELLULAR NETWORK TO LEAD MARKET DURING FORECAST PERIOD

TABLE 36 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY LONG-RANGE COMMUNICATION, 2020–2023 (MILLION UNITS)

TABLE 37 WIRELESS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY LONG-RANGE COMMUNICATION, 2024–2029 (MILLION UNITS)

6.3.2.1 Cellular network

TABLE 38 LONG-RANGE COMMUNICATION: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY CELLULAR NETWORK, 2020–2023 (MILLION UNITS)

TABLE 39 LONG-RANGE COMMUNICATION: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY CELLULAR NETWORK, 2024–2029 (MILLION UNITS)

6.3.2.1.1 Third Generation (3G) and Below

6.3.2.1.2 Fourth Generation (4G)/Long-Term Evolution (LTE)

6.3.2.1.3 Fifth Generation (5G)

6.3.2.1.4 NarrowBand Internet of Things (NB-IoT)

6.3.2.2 Non-cellular Network

TABLE 40 LONG-RANGE COMMUNICATION: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY NON-CELLULAR NETWORK, 2020–2023 (MILLION UNITS)

TABLE 41 LONG-RANGE COMMUNICATION: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY NON-CELLULAR NETWORK, 2024–2029 (MILLION UNITS)

6.3.2.2.1 SigFox

6.3.2.2.2 LoRa

7 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER

7.1 INTRODUCTION

FIGURE 35 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER

FIGURE 36 AUTOMOTIVE AND TRANSPORTATION SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 42 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2020–2023 (MILLION UNITS)

TABLE 43 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2024–2029 (MILLION UNITS)

7.2 HEALTHCARE

TABLE 44 HEALTHCARE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)

TABLE 45 HEALTHCARE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)

TABLE 46 HEALTHCARE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 47 HEALTHCARE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)

7.2.1 PATIENT MONITORING SYSTEMS

7.2.1.1 Blood pressure monitors

7.2.1.1.1 Rise in cardiovascular and chronic diseases to drive market

7.2.1.2 Blood glucose meters

7.2.1.2.1 Growing demand for home testing to drive market

7.2.1.3 Multi-parameter monitors

7.2.1.3.1 Trend of tracking disease progression to drive market

7.2.2 FALL DETECTORS

7.2.2.1 Key role in emergency assistance to drive market

7.2.3 SMART PILL DISPENSERS

7.2.3.1 Ability to assist in medication regimen to drive market

7.2.4 TELEMEDICINE

7.2.4.1 Online medical consultations and ePrescriptions to drive market

7.3 UTILITIES

TABLE 48 UTILITIES: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)

TABLE 49 UTILITIES: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)

TABLE 50 UTILITIES: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 51 UTILITIES: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)

7.3.1 SMART GRIDS

7.3.1.1 Growing demand for efficient electricity distribution to drive market

7.3.2 SMART METERS

7.3.2.1 Need for power consumption measurement to drive market

7.4 AUTOMOTIVE AND TRANSPORTATION

TABLE 52 AUTOMOTIVE AND TRANSPORTATION: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)

TABLE 53 AUTOMOTIVE AND TRANSPORTATION: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)

TABLE 54 AUTOMOTIVE AND TRANSPORTATION: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 55 AUTOMOTIVE AND TRANSPORTATION: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)**7.4.1 TELEMATICS**

7.4.1.1 Growing adoption of in-vehicle infotainment systems to drive market

7.4.2 FLEET TRACKING/MONITORING

7.4.2.1 Need for improved productivity and enhanced safety of employees and assets to drive market

7.5 RETAIL**TABLE 56 RETAIL: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)****TABLE 57 RETAIL: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)****TABLE 58 RETAIL: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)****TABLE 59 RETAIL: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)****7.5.1 INTELLIGENT VENDING MACHINES**

7.5.1.1 Digital advertising and consumer gesture recognition trends to drive market

7.5.2 CONTACTLESS CHECKOUT/POS

7.5.2.1 Rising integration of mobile payment and mobile devices to drive market

7.5.3 DIGITAL SIGNAGE

7.5.3.1 Virtual product trials to drive market

7.6 CONSUMER ELECTRONICS**TABLE 60 CONSUMER ELECTRONICS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)****TABLE 61 CONSUMER ELECTRONICS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)****TABLE 62 CONSUMER ELECTRONICS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)****TABLE 63 CONSUMER ELECTRONICS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)****7.6.1 SMART TV**

7.6.1.1 Affordable prices and improved functions to drive market

7.6.2 SMART APPLIANCES

7.6.2.1 Smart refrigerators

7.6.2.1.1 Wi-Fi and NFC connectivity to drive market

7.6.2.2 Smart washing machines

7.6.2.2.1 Increasing demand for advanced home and professional appliances to drive market

7.6.2.3 Other smart appliances

7.6.2.3.1 Smart ovens

7.6.2.3.2 Smart cooktops

7.7 SECURITY & SURVEILLANCE

TABLE 64 SECURITY & SURVEILLANCE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)

TABLE 65 SECURITY & SURVEILLANCE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)

TABLE 66 SECURITY & SURVEILLANCE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 67 SECURITY & SURVEILLANCE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)

7.7.1 COMMERCIAL AND RESIDENTIAL SECURITY

7.7.1.1 Increased criminal and fraudulent activities to drive market

7.7.2 REMOTE SURVEILLANCE

7.7.2.1 Growing applications in critical decision making during natural disasters to drive market

7.8 OTHER END USERS

TABLE 68 OTHER END USERS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)

TABLE 69 OTHER END USERS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)

TABLE 70 OTHER END USERS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 71 OTHER END USERS: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)

7.8.1 OIL & GAS

7.8.2 AGRICULTURE

8 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION

8.1 INTRODUCTION

FIGURE 37 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION

FIGURE 38 ASIA PACIFIC TO BE FASTEST-GROWING REGION DURING FORECAST PERIOD

TABLE 72 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)

TABLE 73 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)

8.2 NORTH AMERICA

FIGURE 39 NORTH AMERICA: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET SNAPSHOT

TABLE 74 NORTH AMERICA: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY COUNTRY, 2020–2023 (MILLION UNITS)

TABLE 75 NORTH AMERICA: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY COUNTRY, 2024–2029 (MILLION UNITS)

TABLE 76 NORTH AMERICA: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 77 NORTH AMERICA: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)

TABLE 78 NORTH AMERICA: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2020–2023 (MILLION UNITS)

TABLE 79 NORTH AMERICA: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2024–2029 (MILLION UNITS)

8.2.1 US

8.2.1.1 Presence of prominent IoT and M2M companies to drive market

8.2.2 CANADA

8.2.2.1 Spectrum auctions for 5G meters to drive market

8.2.3 MEXICO

8.2.3.1 Mexico Conectado program to drive market

8.2.4 NORTH AMERICA: RECESSION IMPACT ANALYSIS

8.3 EUROPE

FIGURE 40 EUROPE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET SNAPSHOT

TABLE 80 EUROPE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY COUNTRY, 2020–2023 (MILLION UNITS)

TABLE 81 EUROPE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY COUNTRY, 2024–2029 (MILLION UNITS)

TABLE 82 EUROPE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 83 EUROPE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)

TABLE 84 EUROPE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2020–2023 (MILLION UNITS)

TABLE 85 EUROPE: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2024–2029 (MILLION UNITS)

8.3.1 UK

8.3.1.1 UK Digital Strategy to drive market

8.3.2 GERMANY

8.3.2.1 Industry 4.0 principles to drive market

8.3.3 FRANCE

8.3.3.1 Increasing R&D investments in industrial sector to drive market

8.3.4 REST OF EUROPE

8.3.5 EUROPE: RECESSION IMPACT ANALYSIS

8.4 ASIA PACIFIC

FIGURE 41 ASIA PACIFIC: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET SNAPSHOT

TABLE 86 ASIA PACIFIC: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY COUNTRY, 2020–2023 (MILLION UNITS)

TABLE 87 ASIA PACIFIC: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY COUNTRY, 2024–2029 (MILLION UNITS)

TABLE 88 ASIA PACIFIC: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 89 ASIA PACIFIC: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)

TABLE 90 ASIA PACIFIC: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2020–2023 (MILLION UNITS)

TABLE 91 ASIA PACIFIC: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2024–2029 (MILLION UNITS)

8.4.1 CHINA

8.4.1.1 Rapid development of 5G factories, data centers, and industrial internet platforms to drive market

8.4.2 JAPAN

8.4.2.1 Rise in sustainable green buildings to drive market

8.4.3 SOUTH KOREA

8.4.3.1 Smart city initiatives to drive market

8.4.4 REST OF ASIA PACIFIC

8.4.5 ASIA PACIFIC: RECESSION IMPACT ANALYSIS

8.5 REST OF THE WORLD

TABLE 92 REST OF THE WORLD: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2020–2023 (MILLION UNITS)

TABLE 93 REST OF THE WORLD: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY REGION, 2024–2029 (MILLION UNITS)

TABLE 94 REST OF THE WORLD: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2020–2023 (MILLION UNITS)

TABLE 95 REST OF THE WORLD: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY TECHNOLOGY, 2024–2029 (MILLION UNITS)

TABLE 96 REST OF THE WORLD: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2020–2023 (MILLION UNITS)

TABLE 97 REST OF THE WORLD: MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET, BY END USER, 2024–2029 (MILLION UNITS)

8.5.1 SOUTH AMERICA

8.5.1.1 Growing adoption of 4G and 5G to drive market

8.5.2 GCC

8.5.2.1 Surge in smart grid projects to drive market

8.5.3 REST OF MIDDLE EAST & AFRICA

9 COMPETITIVE LANDSCAPE

9.1 OVERVIEW

9.2 STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 98 STRATEGIES ADOPTED BY KEY PLAYERS

9.2.1 PRODUCT PORTFOLIO

9.2.2 REGIONAL FOCUS

9.2.3 ORGANIC/INORGANIC GROWTH STRATEGIES

9.3 MARKET SHARE ANALYSIS

FIGURE 42 MARKET SHARE ANALYSIS OF TOP FIVE PLAYERS, 2022

TABLE 99 DEGREE OF COMPETITION

9.4 REVENUE ANALYSIS

FIGURE 43 REVENUE ANALYSIS OF MARKET PLAYERS, 2018–2022

9.5 COMPANY EVALUATION MATRIX

9.5.1 STARS

9.5.2 EMERGING LEADERS

9.5.3 PERVASIVE PLAYERS

9.5.4 PARTICIPANTS

FIGURE 44 COMPANY EVALUATION MATRIX, 2022

9.5.5 COMPANY FOOTPRINT

TABLE 100 COMPANY FOOTPRINT

TABLE 101 END USER FOOTPRINT

TABLE 102 REGION FOOTPRINT

9.6 STARTUP/SME EVALUATION MATRIX

9.6.1 PROGRESSIVE COMPANIES

9.6.2 RESPONSIVE COMPANIES

9.6.3 DYNAMIC COMPANIES

9.6.4 STARTING BLOCKS

FIGURE 45 STARTUP/SME EVALUATION MATRIX, 2022

9.6.5 COMPETITIVE BENCHMARKING

TABLE 103 KEY STARTUPS/SMES

TABLE 104 COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

9.7 COMPETITIVE SCENARIO

9.7.1 PRODUCT LAUNCHES

TABLE 105 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET: PRODUCT LAUNCHES, JANUARY 2022–OCTOBER 2023

9.7.2 DEALS

TABLE 106 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET: DEALS, SEPTEMBER 2022–DECEMBER 2023

9.7.3 OTHER DEVELOPMENTS

TABLE 107 MACHINE-TO-MACHINE (M2M) CONNECTIONS MARKET: OTHER DEVELOPMENTS, JANUARY 2024

10 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *

10.1 KEY PLAYERS

10.1.1 AT&T INTELLECTUAL PROPERTY

TABLE 108 AT&T INTELLECTUAL PROPERTY: COMPANY OVERVIEW

FIGURE 46 AT&T INTELLECTUAL PROPERTY: COMPANY SNAPSHOT

TABLE 109 AT&T INTELLECTUAL PROPERTY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

10.1.2 TEXAS INSTRUMENTS INCORPORATED

TABLE 110 TEXAS INSTRUMENTS INCORPORATED: COMPANY OVERVIEW

FIGURE 47 TEXAS INSTRUMENTS INCORPORATED: COMPANY SNAPSHOT

TABLE 111 TEXAS INSTRUMENTS INCORPORATED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 112 TEXAS INSTRUMENTS INCORPORATED: PRODUCT LAUNCHES

10.1.3 CHINA MOBILE INTERNATIONAL LIMITED

TABLE 113 CHINA MOBILE INTERNATIONAL LIMITED: COMPANY OVERVIEW

TABLE 114 CHINA MOBILE INTERNATIONAL LIMITED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 115 CHINA MOBILE INTERNATIONAL LIMITED: DEALS

10.1.4 VODAFONE LIMITED

TABLE 116 VODAFONE LIMITED: COMPANY OVERVIEW

FIGURE 48 VODAFONE LIMITED: COMPANY SNAPSHOT

TABLE 117 VODAFONE LIMITED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 118 VODAFONE LIMITED: PRODUCT LAUNCHES

TABLE 119 VODAFONE LIMITED: DEALS

10.1.5 CISCO SYSTEMS, INC.

TABLE 120 CISCO SYSTEMS, INC.: COMPANY OVERVIEW

FIGURE 49 CISCO SYSTEMS, INC.: COMPANY SNAPSHOT

TABLE 121 CISCO SYSTEMS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

10.1.6 HUAWEI TECHNOLOGIES CO., LTD.

TABLE 122 HUAWEI TECHNOLOGIES CO., LTD.: COMPANY OVERVIEW

FIGURE 50 HUAWEI TECHNOLOGIES CO., LTD.: COMPANY SNAPSHOT

TABLE 123 HUAWEI TECHNOLOGIES CO., LTD.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 124 HUAWEI TECHNOLOGIES CO., LTD.: DEALS

10.1.7 NXP SEMICONDUCTORS

TABLE 125 NXP SEMICONDUCTORS: COMPANY OVERVIEW

FIGURE 51 NXP SEMICONDUCTORS: COMPANY SNAPSHOT

TABLE 126 NXP SEMICONDUCTORS: PRODUCTS/SOLUTIONS/SERVICES

OFFERED

TABLE 127 NXP SEMICONDUCTORS: PRODUCT LAUNCHES

10.1.8 INTEL CORPORATION

TABLE 128 INTEL CORPORATION: COMPANY OVERVIEW

FIGURE 52 INTEL CORPORATION: COMPANY SNAPSHOT

TABLE 129 INTEL CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 130 INTEL CORPORATION: EXPANSIONS

10.1.9 THALES

TABLE 131 THALES: COMPANY OVERVIEW

FIGURE 53 THALES: COMPANY SNAPSHOT

TABLE 132 THALES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 133 THALES: DEALS

10.1.10 MURATA MANUFACTURING CO., LTD.

TABLE 134 MURATA MANUFACTURING CO., LTD.: COMPANY OVERVIEW

FIGURE 54 MURATA MANUFACTURING CO., LTD.: COMPANY SNAPSHOT

TABLE 135 MURATA MANUFACTURING CO., LTD.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 136 MURATA MANUFACTURING CO., LTD.: PRODUCT LAUNCHES

TABLE 137 MURATA MANUFACTURING CO., LTD.: DEALS

10.1.11 U-BLOX

TABLE 138 U-BLOX: COMPANY OVERVIEW

FIGURE 55 U-BLOX: COMPANY SNAPSHOT

TABLE 139 U-BLOX: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 140 U-BLOX: PRODUCT LAUNCHES

TABLE 141 U-BLOX: DEALS

10.2 OTHER PLAYERS

10.2.1 FANSTEL CORP.

TABLE 142 FANSTEL CORP.: COMPANY OVERVIEW

10.2.2 COMMSOLID GMBH

TABLE 143 COMMSOLID GMBH: COMPANY OVERVIEW

10.2.3 AFERO

TABLE 144 AFERO: COMPANY OVERVIEW

10.2.4 VIRSCIENT

TABLE 145 VIRSCIENT: COMPANY OVERVIEW

10.2.5 KORE WIRELESS GROUP

TABLE 146 KORE WIRELESS GROUP: COMPANY OVERVIEW

10.2.6 ROGERS COMMUNICATIONS INC.

TABLE 147 ROGERS COMMUNICATIONS INC.: COMPANY OVERVIEW

10.2.7 VERIZON COMMUNICATIONS INC.

TABLE 148 VERIZON COMMUNICATIONS INC.: COMPANY OVERVIEW

10.2.8 SINGAPORE TELECOMMUNICATIONS LIMITED

TABLE 149 SINGAPORE TELECOMMUNICATIONS LIMITED: COMPANY OVERVIEW

10.2.9 TELEFONICA SA

TABLE 150 TELEFONICA SA: COMPANY OVERVIEW

10.2.10 SIERRA WIRELESS

TABLE 151 SIERRA WIRELESS: COMPANY OVERVIEW

10.2.11 ORANGE SA

TABLE 152 ORANGE SA: COMPANY OVERVIEW

10.2.12 PARALLEL WIRELESS

TABLE 153 PARALLEL WIRELESS: COMPANY OVERVIEW

10.2.13 AERIS

TABLE 154 AERIS: COMPANY OVERVIEW

10.2.14 TELENOR GROUP

TABLE 155 TELENOR GROUP: COMPANY OVERVIEW

10.2.15 VERTICAL M2M

TABLE 156 VERTICAL M2M: COMPANY OVERVIEW

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

11 APPENDIX

11.1 DISCUSSION GUIDE

11.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

11.3 CUSTOMIZATION OPTIONS

11.4 RELATED REPORTS

11.5 AUTHOR DETAILS

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