

IoT Technology Market with COVID-19 Impact Analysis, by Node Component (Sensor, Memory Device, Connectivity IC), Solution (Remote Monitoring, Data Management), Platform, Service, End-use Application, Geography - Global Forecast to 2027

<https://marketpublishers.com/r/I0526B20C9FEN.html>

Date: October 2021

Pages: 390

Price: US\$ 4,950.00 (Single User License)

ID: I0526B20C9FEN

Abstracts

The IoT technology market is expected to grow from USD 384.5 billion in 2021 to USD 566.4 billion by 2027, at a CAGR of 6.7%. The market growth can be attributed to several factors, such as the emergence of 5G communications technology, increasing necessity of data centers due to rising adoption of cloud platforms, growing use of wireless smart sensors and networks, and increased IP address space and better security solutions made available through IPv6.

The IoT technology market witnessed a significant decline in its size in 2020 owing to the spread of the virus. The pandemic has adversely impacted the supply chain of the industry. While there are several verticals that utilize IoT technologies, such as manufacturing, transportation, and travel and hospitality, where all the operations are put on hold, customers have changed their organization's priorities. Moreover, in the wake of the current situation, the key players are focusing on maintaining and generating operating revenues. This led to a reduction in the number of developments in the IoT technology market in 2020. A number of scheduled product launches and related developments have been delayed due to the pandemic. However, the impact of COVID-19 is expected to reduce during the forecast period.

The managed services segment is expected to exhibit a higher CAGR of the IoT technology market during the forecast period

Based on the service, the IoT technology market has been divided into professional

services and managed services. IoT managed service is a portfolio of services and capabilities that help in managing the entire IoT environment. It defines an appropriate strategy for businesses for digital transformation and empowers organizations to bring together the right mix of IoT products and solutions.

Aerospace & defense end-use application segment to exhibit a higher CAGR of IoT technology market during the forecast period

IoT in the aerospace and defense segment in industrial application provides connectivity and integration and equips the manufacturer with wide-ranging views of their operations. The aerospace and defense end-user application makes use of sensors to capture comprehensive machine data. These sensors can be used on key equipment, machines, and vehicles. IoT offers numerous opportunities to airlines for the improvement of baggage handling and equipment monitoring.

The market for logic devices to grow at the highest CAGR during the forecast period

On the basis of node component, the market is categorized into memory device, logic device, processor, sensor, and connectivity IC. The significant increase in shipment of logic devices can be attributed to the rising demand for wearables, such as smartwatches, especially in developing economies, such as China, India, and Brazil, as well as the increasing participation of domestic players in the wearables market.

APAC is expected to register the highest CAGR in the market during the forecast period

Among all regions, APAC is expected to register the highest growth in the IoT technology market during the forecast period. The growing penetration of the internet across commercial as well as residential spaces, broad consumer base, increasing disposable income, and improving IT infrastructure are some of the key determinants supplementing the growth of the IoT technology market in APAC. Moreover, the adoption of cloud-based services and rising trend of industrial automation are the key growth drivers for the IoT technology market for commercial applications in countries such as China, South Korea, and Japan.

Breakdown of primary participants:

By Company Type: Tier 1 = 45%, Tier 2 = 30%, and Tier 3 = 25%

By Designation: C-Level Executives = 40%, Directors = 35%, and Others = 25%

By Region: North America = 45%, Europe = 20%, APAC = 30%, and RoW = 5%

Some of the major players in the IoT technology market include Intel Corporation (US), Qualcomm Technologies (US), Texas Instruments Incorporated (US), STMicroelectronics (Switzerland), IBM (US), Hewlett Packard Enterprise (US), Cisco Systems (US), Microsoft Corporation (US), PTC (US), and Amazon Web Services (AWS) (US), and so on.

Research Coverage:

In this report, the IoT technology market has been segmented on the basis of node component, platform, service, software solution, end-use application, and geography. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions—North America, Europe, APAC, and RoW. Value chain analysis has been included in the report, along with the key players and their competitive analysis in the IoT technology ecosystem.

Key Benefits to Buy the Report:

This report includes statistics for the IoT technology market based on node component, platform, service, software solution, end-use application, and geography, along with their respective market sizes.

Value chain analysis and key industry trends have been provided for the market.

Major drivers, restraints, opportunities, and challenges for the IoT technology market have been provided in detail in this report.

This report would help stakeholders to understand their competitors better and gain more insights to enhance their position in the market. The competitive landscape section includes the competitor ecosystem and the recent development strategies adopted by the key players in the market, such as product launches/developments, partnerships/acquisitions/agreements/contracts/collaborations/expansions.

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10.2.1.2 Healthcare application: Products covered

10.2.1.2.1 Fitness & heart rate monitors

10.2.1.2.2 Blood pressure monitors

10.2.1.2.3 Blood glucose meters

10.2.1.2.4 Continuous Glucose Monitors

10.2.1.2.5 Pulse oximeters

10.2.1.2.6 Automated external defibrillators

10.2.1.2.7 Programmable syringe pumps

10.2.1.2.8 Wearable injectors

10.2.1.2.9 Multiparameter monitors

10.2.1.2.10 Fall detectors

10.2.1.2.11 Smart pill dispensers

10.2.1.2.12 Gateways

10.2.2 AUTOMOTIVE & TRANSPORTATION

10.2.2.1 Autonomous cars and intelligent transportation trends are fueling growth of market

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10.2.2.2 Automotive & transportation application: Products covered

10.2.2.2.1 Connected cars

10.2.2.2.1.1 Level 1 – driver assistance

10.2.2.2.1.2 Level 2 – partial automation

10.2.2.2.1.3 Level 3 – conditional automation

10.2.2.2.1.4 Level 4 – high automation

10.2.2.2.2 Ultrasonic sensors

10.2.2.2.3 Cameras/image sensors

10.2.2.2.4 Radar

10.2.2.2.5 Lidar

10.2.2.2.6 Infrared (IR) detector

10.2.2.3 In-car infotainment

10.2.2.4 Traffic management

10.2.2.4.1 Vehicle detection sensor

10.2.2.4.2 Pedestrian presence sensor

10.2.2.4.3 Speed sensor

10.2.2.4.4 Thermal camera

10.2.2.4.5 Automated incident detection (AID) camera

10.2.2.5 Public transport/mass transit

10.2.2.6 E-tolls/E-highways

10.2.2.7 Gateways

10.2.3 BUILDING AUTOMATION

10.2.3.1 Need for energy efficiency and enhanced security is boosting adoption of IoT

in building automation

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BY REGION, 2021–2027 (USD MILLION)****10.2.3.2 Building automation application: Products covered**

10.2.3.2.1 Occupancy sensors

10.2.3.2.2 Daylight sensors

10.2.3.2.3 Smart Thermostats

10.2.3.2.4 IP cameras

10.2.3.2.5 Smart meters

10.2.3.2.6 Smart locks

10.2.3.2.7 Smoke detectors

10.2.3.2.8 Gateways

10.2.4 MANUFACTURING

10.2.4.1 Adoption of industry 4.0 principles has fueled IoT adoption in manufacturing

10.2.4.2 Manufacturing application: Products covered

10.2.4.2.1 Temperature sensors

10.2.4.2.2 Pressure sensors

10.2.4.2.3 Level sensors

10.2.4.2.4 Flow sensors

10.2.4.2.5 Chemical sensors

10.2.4.2.6 Humidity sensors

10.2.4.2.7 Motion and position sensors

10.2.4.2.8 Image sensors

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10.2.5 RETAIL

10.2.5.1 Growing popularity of digital signage and intelligent vending machines in retail is driving market growth

10.2.5.2 Retail application: Products covered

10.2.5.2.1 Intelligent vending machines

FIGURE 44 INTELLIGENT VENDING USING IOT GATEWAY

10.2.5.2.2 Contactless checkout/POS

10.2.5.2.3 Smart mirror

10.2.5.2.4 Smart shopping cart

10.2.5.2.5 Digital signage

10.2.5.2.6 Smart tags

10.2.5.2.7 Wireless beacon

10.2.5.2.8 Gateways

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10.2.6 BANKING, FINANCIAL SERVICES, AND INSURANCE (BFSI)

10.2.6.1 Adoption of mPOS and kiosks is driving market growth

FIGURE 45 KEY APPLICATION AREAS OF IOT IN BFSI END-USE APPLICATION

10.2.6.2 BFSI application: Products covered

10.2.6.2.1 Mobile point of sale (mPOS)

10.2.6.2.2 Smart kiosk/Interactive kiosk

10.2.6.2.3 Gateways

TABLE 170 IOT TECHNOLOGY MARKET FOR BFSI, BY TYPE, 2017–2020 (USD
MILLION)

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MILLION)

TABLE 172 IOT TECHNOLOGY (ONLY NODE) MARKET FOR BFSI, BY TYPE,
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TABLE 173 IOT TECHNOLOGY MARKET FOR BFSI, BY TYPE, 2017–2020 (MILLION
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TABLE 187 IOT TECHNOLOGY MARKET FOR BFSI IN ROW, BY REGION,
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10.2.7 OIL & GAS

10.2.7.1 Need for remote monitoring in operations of oil & gas industry is propelling
market growth

10.2.7.2 Oil & gas application: Products covered

10.2.7.2.1 Temperature sensors

10.2.7.2.2 Pressure sensors

10.2.7.2.3 Level sensors

10.2.7.2.4 Flow sensors

10.2.7.2.5 Image sensors

10.2.7.2.6 Other sensors (humidity sensors, motion & position sensors, and chemical
& gas sensors)

10.2.7.2.7 Gateways

TABLE 188 IOT TECHNOLOGY MARKET FOR OIL & GAS, BY TYPE, 2017–2020
(USD THOUSAND)

TABLE 189 IOT TECHNOLOGY MARKET FOR OIL & GAS, BY TYPE, 2021–2027
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TABLE 190 IOT TECHNOLOGY (ONLY NODE) MARKET FOR OIL & GAS, BY
SENSOR TYPE, 2017–2020 (THOUSAND UNITS)

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TABLE 195 IOT TECHNOLOGY MARKET FOR OIL & GAS, BY NODE COMPONENT,
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TABLE 204 IOT TECHNOLOGY MARKET FOR OIL & GAS IN LATIN AMERICA, BY COUNTRY, 2017–2020 (USD MILLION)

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TABLE 206 IOT TECHNOLOGY MARKET FOR OIL & GAS IN EUROPE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 207 IOT TECHNOLOGY MARKET FOR OIL & GAS IN EUROPE, BY COUNTRY, 2021–2027 (USD MILLION)

TABLE 208 IOT TECHNOLOGY MARKET FOR OIL & GAS IN APAC, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 209 IOT TECHNOLOGY MARKET FOR OIL & GAS IN APAC, BY COUNTRY, 2021–2027 (USD MILLION)

TABLE 210 IOT TECHNOLOGY MARKET FOR OIL & GAS IN ROW, BY REGION, 2017–2020 (USD MILLION)

TABLE 211 IOT TECHNOLOGY MARKET FOR OIL & GAS IN ROW, BY REGION, 2021–2027 (USD MILLION)

10.2.8 AGRICULTURE

10.2.8.1 Increasing global demand for food and adoption of smart farming practices is driving market growth

FIGURE 46 IOT IN AGRICULTURE

10.2.8.2 Agriculture application: Products covered

10.2.8.2.1 Climate sensors

10.2.8.2.2 Soil moisture sensors

10.2.8.2.3 Level sensors

10.2.8.2.4 Gateways

TABLE 212 IOT TECHNOLOGY MARKET FOR AGRICULTURE, BY TYPE, 2017–2020
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TABLE 226 IOT TECHNOLOGY MARKET FOR AGRICULTURE IN APAC, BY
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REGION, 2017–2020 (USD THOUSAND)

TABLE 229 IOT TECHNOLOGY MARKET FOR AGRICULTURE IN ROW, BY
REGION, 2021–2027 (USD THOUSAND)

10.2.9 AEROSPACE AND DEFENSE

10.2.9.1 Focus in improving efficiency, passenger safety, security, and experience is boosting IoT adoption in aerospace and defense

10.2.9.2 Aerospace and defense application: Products covered

10.2.9.2.1 Smart baggage tags

10.2.9.2.2 Smart beacons

10.2.9.2.3 ePassport gates

10.2.9.2.4 Drones/Unmanned aerial vehicle (UAV)

10.2.9.2.5 Gateways

TABLE 230 IOT TECHNOLOGY MARKET FOR AEROSPACE & DEFENSE, BY TYPE, 2017–2020 (USD MILLION)

TABLE 231 IOT TECHNOLOGY MARKET FOR AEROSPACE & DEFENSE, BY TYPE, 2021–2027 (USD MILLION)

TABLE 232 IOT TECHNOLOGY (ONLY NODE) MARKET FOR AEROSPACE & DEFENSE, BY TYPE, 2017–2020 (THOUSAND UNITS)

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TABLE 234 IOT TECHNOLOGY (ONLY NODE) MARKET FOR AEROSPACE & DEFENSE, BY TYPE, 2021–2027 (THOUSAND UNITS)

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TABLE 241 IOT TECHNOLOGY MARKET FOR AEROSPACE & DEFENSE IN LATIN AMERICA, BY COUNTRY, 2021–2027 (USD MILLION)

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About

The term 'Internet of Things', from its early introduction in 1990s by Mark Weiser, has evolved greatly, and now has taken the center stage. The potential benefits from technologies associated with the Internet of Things (IoT) lies in the intersection of multiple capabilities.

This report, based on the extensive research study on the Internet of Things market, is aimed at identifying the main application verticals, where the Internet of Things is going to bring about a game-changing revolution in the years to come; particularly in segments such as, building automation, consumer, wearable electronics, industrial, automotive & transportation, and agriculture.

The building automation application comprises markets such as smart HVAC control, lighting control, security & access control, and other IoT-enabled products. Consumer applications cover various consumer-operated electronic devices such as tablets, smartphones, and smart TVs. The segment on wearable electronics covers the entire wearable electronic market, categorized in terms of components; products such as wrist-wear, eye-wear, foot-wear, neck-wear, and body-wear; and applications. The industrial application segment includes smart grid devices and components along with wired and wireless field devices in the industrial network. The automotive & transportation application segment covers two of the rapidly evolving and emerging Internet of Things applications, namely, connected cars and intelligent transportation system. Agriculture, the final application segment discussed, covers precision farming. Various types of wired and wireless communication technologies, standards and protocols such as ZigBee, Bluetooth, EnOcean, Z-Wave, Wi-Fi, NFC, RFID, DALI, NEMA, KNX, Ethernet have been discussed in this report. The report covers the entire spectrum of the market, along with the sub-segments, through extensive and detailed classifications. This report projects the market size for the Americas, EMEA and APAC, in terms of value. The size of various application- and region-wise markets and submarkets of IoT, in terms of value & volume, is estimated and projected till 2020.

IoT applications such as smart meter, smart plug, connected cars, wearable technology are evolving and will further drive opportunities for Internet of Things. Heavy global R&D Investments and government funding in IoT research projects are driving the growth of the IoT market; especially in the U.K., China, and Japan.

This report profiles all the prominent companies involved in the field of Internet of

Things such as ARM Ltd.(U.K.), Texas Instruments Incorporated (U.S.), Nest Labs (U.S.), Rockwell Automation, Inc. (U.S.) Axeda Corporation (U.S.), Cisco Systems, Inc. (U.S.), Dassault Systemes (France), Ecobee Inc. (Canada), Intel Corporation (U.S.), Fujitsu Ltd. (Japan), and GainSpan Corporation (U.S.).

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