

5G IoT Market 2021: Expeditious growth expected in coming years along with key players

Rising adoption of Industry 4.0 in manufacturing to improve operation cycle, connectivity is major thing for continuous workflow integrated with technology.

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IoT devices can be connected to a wide range of wireless technologies such as 5G, wireless sensor network, and Internet Protocol version 6 (IPv6). As

the adoption of these technology increases, the demand for IoT devices also increases. Furthermore, increased capacity, high data rate, and high connectivity are required as the data transmission rate amongst large connected devices increases. As 5G supports low latency 5G wireless networks are considered as key drivers for IoT devices. However, the need for coordination of the devices connected to the IoT has increased as there are different devices connected to IoT. Each device uses various hardware and software platforms and is also manufactured by different manufacturers. This causes compatibility issues amongst devices, sensors, and servers. The main challenge lies in unifying these standards so that M2M communication becomes user-friendly and flexible. Hence, lack of common protocol and communication standards is one of the major restraints for IoT technology. Increased demand for private 5G network technology across private sectors, governments, and organizations is one of the opportunities for the [5G IoT market](#).

5G technology that utilizes local area network is called as private 5G network and offers combined connectivity with numerous advantages and optimized services. Smart retail, connected factories, connected healthcare, autonomous vehicles, and rural broadband connectivity like business applications are provided by these private networks. Ericsson collaborated with Orange Business Services to develop IoT security that offers threat monitoring and mitigation, which adds security to cellular IoT connectivity services.



Key Market Players: China Mobile Limited, AT&T Intellectual Property, Verizon, T-Mobile USA Inc., Vodafone Limited, Orange, Telefonica S.A, SK Telecom, Deutsche Telekom, Telefonaktiebolaget LM Ericsson, Huawei Technologies CO., Ltd., Nokia, Samsung, and Cisco

Impact of COVID-19 on 5G IoT Market-

- The emergence of COVID-19 has a great impact on not only the countries but also different industries across the world. Furthermore, lockdown and restrictions have forced people to work from home.
- To support the digital infrastructure of countries, telecommunication industries are playing a very important role during COVID-19.
- Constant communication with one another in the society be it federal, state, local government or any individual, real-time information of COVID-19 situation is possible due to these digital infrastructures.

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