5G Technology Market and Its Impact on Communication and IoT Market

Description: The total number of mobile (cellular) subscriptions for 5G is expected to increase from 35.0 million by 2021 to 89.0 million by 2022. The prominent factors that are driving the paradigm shift toward new broadband technology include the rising demand for high data speed and large network coverage, significant growth in the mobile data traffic, growing machine-to-machine communication in organizations, and need to support the increasing demand for broadband services over mobile networks.

The countries that are expected to be the early adopters of 5G technology are the U.S., Japan, South Korea, and China. In North America, the U.S. is leading the race in the advancements in mobile technologies, ranging from analog to 4G and now in the 5G technology. The U.S. remains a strong player in the vision and R&D of 5G by ensuring it meets the requirements of the North America's marketplace. Government and private investments in R&D for 5G has been significantly increasing since 2010 to ensure the deployment of 5G technology by 2020. The U.S.-based carriers such as AT&T and Verizon have announced trials and early deployments of 5G technologies, thereby demonstrating a commitment to 5G leadership.

5G is seen as a revolutionary technology for all sectors, which would enable higher connectivity among devices and fast data transfer rate. A number of applications can be identified where current wireless network technologies struggle to meet the requirements such as vehicle-to-vehicle (V2V), vehicle-to-infrastructure (V2I), industrial automation and utility applications, wireless health services, some smart city applications, and various other uses of mobile broadband. Though 5G would have high penetration across all sectors, the major verticals that would adopt 5G-based applications include automotive, energy & utilities, healthcare, industrial automation, intelligent buildings & infrastructures, public safety & surveillance, retail, consumer electronics, and home automation.

In the process of determining and verifying the market size for several segments and subsegments gathered through the secondary research, extensive primary interviews were conducted with key people. The breakup of the profiles of primary participants is given below:

- By Company Type: Tier 1 - 45%, Tier 2 - 33%, and Tier 3 - 22%
- By Designation: C-level Executives - 42%, Directors - 33%, and Others - 25%
- By Region: Americas - 39%, Europe - 25%, APAC - 29%, and RoW - 7%

The key players in the 5G technology market include Cisco (U.S.), Ericsson (Sweden), SK Telecom (South Korea), Korea Telecom (South Korea), Nokia Networks (Finland), Samsung (South Korea), Qualcomm (U.S.), Intel (U.S.), NEC Corporation (Japan), Huawei (China), Verizon (U.S.), AT&T (U.S.), T-Mobile USA, Inc., LG (South Korea), and China Mobile (China).

Reasons to Buy the Report:

From an insight perspective, this research report has focused on various levels of analysis including industry analysis (industry trends), value chain analysis, R&D investments analysis, and company profiles, which together comprise and discuss the basic views on the competitive landscape; emerging and high-growth segments of the 5G technology market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

- Market Penetration: Comprehensive information on products and services offered by the top players in the 5G technology market
- Merger & Acquisition: Detailed insights on latest merger and acquisition activities and expansion in the telecom industry related to 5G
- Market Diversification: Exhaustive information about mergers and acquisitions, contracts, untapped geographical regions, recent developments, and investments in the 5G technology market
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