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Report on the Chinese market for 5G technology

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Abstracts

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By looking back on the development of mobile communication technology it is possible to pinpoint some key technologies for each generation. 1G utilized FDMA technology and was limited to providing voice connections. 2G utilized TDMA technology to provide voice connection services and low speed data services. 3G utilized CDMA technology as its characteristic technology and achieved connection speeds between 2~10Mbps and was the first communication technology to support multimedia streaming. 4G technology utilizes OFDMA technology as its core and provides true multimedia streaming support through connection speeds between 100Mbps~1Gbps.

5G differentiates itself from previous generations of communication technology by being faster than previous generations by a large margin, with reports of improved user experience, connection width, reduced lag and increased peak speeds and mobility are some of the key features of 5G. What makes 5G truly stand out from among its predecessors however is the decreased emphasis on peak speeds and an increased emphasis on user experience. Due to the technical demands required in usage scenarios, 5G users will be able to experience connection speeds faster than previous generations.

Due to the large number of scenarios that will require the use of 5G technology, it is difficult to pinpoint a single feature of the technology as a defining aspect unlike previous generations of communication technology. Wireless technological innovations have begun branching into many different paths, with multiple access technology, mass antenna arrays and new internet structures being considered some of the development paths of 5G technology.

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