

5G Base Station Equipment Market is anticipated to reach US\$43.273 billion by 2028 at a CAGR of 17.86%

The 5G base station equipment market is anticipated to grow at a CAGR of 17.86% from US\$16.144 billion in 2022 to US\$43.273 billion by 2028.



NOIDA, UTTAR PARDESH, INDIA, December 27, 2023 /EINPresswire.com/ -- According to a new study published by Knowledge Sourcing Intelligence, the [5G base station equipment market](#) is projected to grow at a CAGR of 17.86%, between 2022 and 2028 to reach US\$43.273 billion by 2028.

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The global telecommunications infrastructure is rapidly evolving, driving unprecedented growth in the 5G base station equipment market. The market for 5G base station technology has become a focal focus for innovation and investment as demand for faster and more reliable wireless connection grows. The proliferation of connected devices, rising data traffic, and the introduction of innovative technologies like as the Internet of Things (IoT) and augmented reality are among the primary reasons driving the 5G base station equipment market's development.

The market for 5G base station equipment is at the vanguard of the telecommunications revolution, ready to alter global connection and communication capabilities. As the next generation of wireless technology, 5G promises incredible speed, low latency, and increased connection, opening up a plethora of opportunities for both industry and consumers. The sophisticated components that comprise 5G base station technology are at the heart of this significant transition. These critical infrastructure components allow the development and operation of 5G networks, therefore enabling the exponential rise in data traffic, the proliferation of Internet of Things (IoT) devices, and the transition to a more linked and connected world. The desire for faster data speeds, lower latency, and more network capacity has prompted considerable investments from telecom firms and governments throughout the world. The

promise of revolutionizing different industries, including healthcare, automotive, and manufacturing, through the seamless integration of 5G technology is fueling this spike in demand, making the 5G base station equipment market a dynamic and vital component of the telecoms ecosystem.

The market is witnessing multiple collaborations and technological advancements, for instance in Orange in collaboration with Ericsson announced the commercial deployment of its 5G SA network in Spain in December 2023. Only Madrid, Barcelona, Valencia, and Seville will initially have access to its 5G+ service; other cities are expected to be added later this year. According to Orange, the adoption of native 5G bands will increase interior coverage, and decrease latency, device life, and security.

Access sample report or view details: <https://www.knowledge-sourcing.com/report/5g-base-station-equipment-market>

Based on deployment the global 5G base station equipment market is divided into urban and rural. The urban segment is anticipated to have a major proportion of the market share over the forecast period. Given the dense population, increased mobile device usage, and expanding data traffic in metropolitan regions, urban surroundings are anticipated to see a greater need for 5G technology. The construction of 5G base stations in metropolitan areas is critical for delivering increased network capacity, quicker data rates, and low latency to satisfy the developing digital landscape's expectations. Furthermore, urban areas are frequently early adopters of innovative technologies, making them a focus point for the development and spread of 5G infrastructure.

Based on architecture the global 5G base station equipment market is divided into AAU and BBU. The AAU segment is expected to grow at a high CAGR over the forecast period. The AAU ([Active Antenna Unit](#)) is expected to lead the global 5G base station equipment market in the future years due to its disruptive influence on network efficiency and performance. Unlike typical base station architectures, AAU combines active antenna technology with radio frequency (RF) components, combining numerous functions into a single small device. This not only minimizes the total size of the base station but also increases deployment flexibility.

Based on technology the global 5G base station equipment market is divided into [O-RAN](#) and Traditional RAN. Among these, the O-RAN segment is likely to hold a major market share and grow with a high AGR over the forecast period. O-RAN, which is distinguished by its open design and interoperability, is gaining interest because it promises to improve network flexibility, lower costs, and foster innovation through vendor variety. The industry's shift to O-RAN is consistent with the larger trend of network disaggregation and virtualization. As 5G deployment expands, O-RAN's capacity to stimulate vendor collaboration and its promise of enhanced operational efficiency is projected to position it as the dominant force in the 5G base station equipment market shortly.

Based on configuration the global 5G base station equipment market is divided into standalone

and non-standalone. Among these, the standalone segment is anticipated to grow significantly over the forecast period. Standalone 5G provides a native 5G core, allowing operators to fully leverage 5G's transformational features such as ultra-reliable low latency communication (URLLC) and network slicing. SA also makes it easier to install new services and applications that need a more resilient and efficient network infrastructure. As 5G networks expand and mature, the industry will likely see more expenditures in standalone configurations to fully realize the potential of 5G technology.

Based on frequency band the global 5G base station equipment market is divided into Sub-6 GHz and mmWave. The sub-6 GHz frequency range is predicted to grow significantly over the forecast period in the 5G base station equipment sector for numerous reasons. For instance, Sub-6 GHz has superior coverage and penetration capabilities than mmWave. Lower frequencies in this range may travel over greater distances and penetrate barriers like buildings, making it ideal for extensive deployment in urban, suburban, and rural locations. Furthermore, Sub-6 GHz delivers a combination of data speed and coverage, making it an appealing alternative for telecom operators aiming to create a dependable and wide 5G network.

Based on geography the North American region is projected to capture a major market share over the forecast period. Several variables are combined to position North America as the major market for 5G base station equipment in the coming years. The region's solid technical infrastructure, along with major expenditures in R&D, places it at the forefront of the 5G rollout. As North American telecom operators actively build out 5G networks, there is an increasing demand for sophisticated base station technology that can enable faster data rates, lower latency, and more connection. Furthermore, the region's huge and tech-savvy consumer base is pushing 5G-enabled device adoption, demanding a robust and widespread 5G infrastructure. The dynamic innovation ecosystem, along with a proactive regulatory framework, accelerates 5G technology implementation in North America, positioning it as a significant participant in the global 5G base station equipment market.

As a part of the report, the major players operating in the global 5G base station equipment market, that have been covered are NEC, Fujitsu, Huawei Technologies Co., Ltd., Samsung, ZTE, Nokia, and Ericsson.

The market analytics report segments the 5G base station equipment market using the following criteria:

- BY DEPLOYMENT
 - o Urban
 - o Rural
- BY ARCHITECTURE

- o AAU
- o BBU

- BY TECHNOLOGY

- o O-RAN
- o Traditional RAN

- BY CONFIGURATION

- o Standalone
- o Non-Standalone

- BY FREQUENCY BAND

- o Sub-6 GHz
- o mmWave

- BY GEOGRAPHY

- o Americas

- United States
- Others

- o Europe, Middle East, and Africa

- Germany
- UK
- Others

- o Asia Pacific

- China
- Japan
- South Korea
- Others

Companies Profiled:

- NEC
- Fujitsu
- Huawei Technologies Co., Ltd.

- Samsung
- ZTE
- Nokia
- Ericsson

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