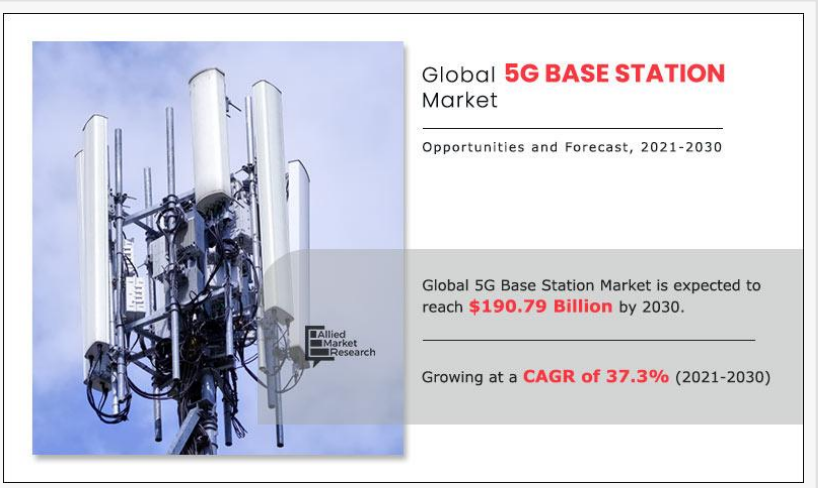
5G Base Station Market 2021 Technology Landscape and Opportunities Report 2031 | Key Players as Marvell, Nokia, Samsung

WILMINGTON, DE, UNITED STATES, February 7, 2024 /EINPresswire.com/ -- According to the report published by Allied Market Research, the global 5G base station market is expected to generate a revenue of $190.78 billion by 2030. The market accounted for $8.16 billion in 2020 and is predicted to rise at a CAGR of 37.3% from 2021 to 2030.



5G Base Station Market

The report presents a comprehensive analysis of the market size & estimations, top winning strategies, drivers & opportunities, top investment pockets, competitive insights, and varying market trends.

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A 5G base station is an innovative system that allows the base station to enable wireless devices to connect with central hubs. Further, 5G networks are intended to complement 4G networks by utilizing a variety of microcells, small cells, and dedicated in-building systems. The small cells are tiny base stations that are designed to provide in-fill for a larger macro network. They generally range in size from 10 meters to a few hundred meters. In addition, the 5G small cell base station is powered by an amplifier that converts signals from radio frequency antennas to baseband units in wireless stations. Moreover, the increase in demand for high-speed interconnected devices across prime economies is propelling the need for the next generation 5G base station system.

The global 5G base station market is attributed to the rising adoption of 5G IoT ecosystem & critical communication services, the growing demand for high-speed data with low latency, and the rise of interconnected devices. Furthermore, the continuous advancements in smart infrastructure solutions are predicted to create extensive growth opportunities for the market.

However, the rising government regulations related to network radiation hamper the market growth to some extent.

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The global 5G base station market is expected to observe prominent growth owing to the surging adoption of 5G IoT ecosystem & critical communication services, the rising need for high-speed data with low latency, and the emergence of interconnected devices. By network architecture, the 5G non-standalone segment held the highest market share in 2020. Region-wise, the Asia-Pacific region is predicted to showcase the highest CAGR by 2030.

The key market players examined in the global 5G base station market report include Telefonaktiebolaget LM Ericsson, Nokia, Cisco Systems Inc., ZTE Corporation, Huawei Technologies Co. Ltd., Marvell, NEC Corporation, Airspon Network Inc., Samsung, and Qualcomm Incorporated.

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Key Industry Developments -

October 2023: Bromsgrove-based JET Connectivity launched world's first permanently deployable floating 5G base station in Grimsby (UK), to help connect an operational offshore wind farm.

September 2023: BLiNQ Networks partnered with EdgeQ for a powerful hardware and software collaboration. Through this partnership, they will launch the PCW-400i, their advanced 5G small cell base station, designed to enable new Industry 4.0 use cases in a very cost-effective way.

March 2023: Radio Frequency Systems (RFS), a global designer and manufacturer of end-to-end wireless connectivity solutions, collaborated with Nokia Corporation, to integrate its passive antenna technology with Nokia's 5G Massive MIMO radios, in a compact design to further enhance 5G base station capabilities.

February 2023: Fujitsu launched the new 5G vRAN solution combining Fujitsu's virtualized CU (vCU) and virtualized DU (vDU) with NVIDIA's GPU technology. With this new solution, Fujitsu aims to contribute to the global expansion of the open 5G network in cooperation with telecom operators including NTT DOCOMO.

January 2022: NEC Corporation launched two new UNIVERGE RV1000 series private 5G base station models in Japan. These new products will reduce initial investment costs and facilitate the rapid development of small-scale private 5G networks, which helps to promote the adoption of private 5G and to resolve issues faced by customers.

June 2021: NEC Corporation launched the new 5G Massive MIMO Radio Units for 5G base stations. This new 5G radio units will help to expand the communications area and provide high-speed transmission.

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