

Samsung Shares Massive MIMO Roadmap in New Whitepaper



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Samsung Electronics today published a whitepaper titled “Massive MIMO for New Radio,” highlighting the capabilities and benefits of Massive Multi-Input, Multi-Output (MIMO) in 5G NR systems and sharing Samsung’s roadmap for Massive MIMO solutions. The whitepaper presents the various form factors, essential air technologies and development plans, as well as Samsung’s vision for this critical technology essential for 5G build-out.

With the exponential growth in mobile traffic, the newly deployed 5G solutions must provide fast and stable network connections. Massive MIMO is a major breakthrough in technology which improves the network capacity and the user’s 5G experience. Massive MIMO, outfitted with a large number of antennas, can control the antennas to concentrate the emitted radio signals into a narrow beam focused on a designated user, resulting in a significant improvement in throughput and efficiency while reducing interferences among nearby users.

Samsung provides a wide array of Massive MIMO radio lineup that aim to support all of the globally defined 5G spectrums in mid-band and serve diverse environments and site requirements. In 5G’s initial stage, Samsung Massive MIMO radio featured a slim, lightweight, compact design to ensure easy installation and quick deployment. These specifications were a key driver for Korean operators launching one of the world’s first 5G services in 2019.

Samsung will continue to develop technology that supports a vast array of spectrum with higher capacity. The company will lay the groundwork for more innovations by introducing the

next-generation Massive MIMO with enhancements in the latest 3GPP release 16 and 17, as well as Distributed FD-MIMO (Full Dimension MIMO) in the coming years.

For further information on Samsung's Massive MIMO for New Radio, read the whitepaper [here](#).

Samsung has pioneered the successful delivery of 5G end-to-end solutions including chipsets, radios, and core network technologies. Samsung supports 5G commercial services in the world's leading markets, including Korea, the U.S. and Japan. In addition, the company is rapidly expanding its global footprint to new markets including Canada and New Zealand.

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