

Startups • IoT

BBox: The first 5G development kit in the world

By Fisher Yu, DIGITIMES

TMYTEK solved two critical issues in 5G development: lack of R&D tool and expensive OTA testing in the production line with their unique mmWave beamformer product, BBox.

The flexibility of BBox empowered itself as an excellent R&D tool for antenna designer and protocol researchers. Leading institutes and universities had already used BBox to demonstrate promising technologies such as

beam tracking algorithm optimization.

More than that, BBox can also be a cost-effective 5G OTA testing solution. As an RF probe, beam steering can be easily achieved in BBox to characterize the beam profile and the steering angle of the DUTs.

“We have talents rarely found in Taiwan startup team. By solving the above issues, TMYTEK believes we can contribute to the World with the proud of our technology. In addition to mmWave experts, brilliant

embedded software and firmware engineers are also in our team. That’s the reason we can build out mmWave beamforming technology for 5G communication.” Ethan Lin, vice president of TMYTEK said.

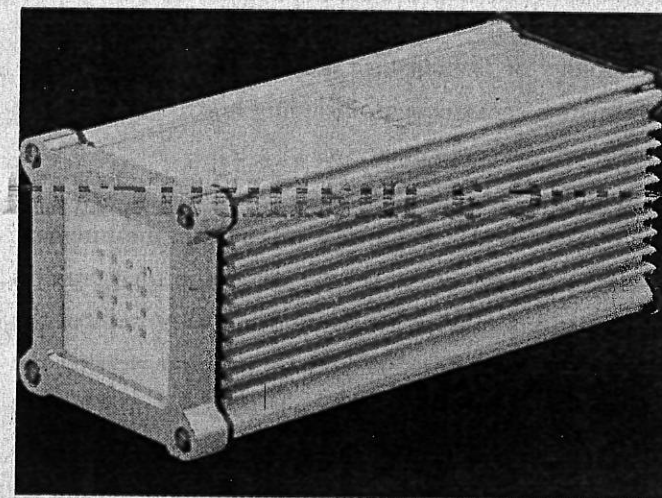
5G NR mmWave Challenging

5G is going to change how people work and live. Innovative applications such as 8K video streaming and V2X primarily based on the success of 5G. The significant enhancement in 5G communication

is the use of mmWave to benefit from its abundant spectrum resources and massive bandwidth. The short wavelength of mmWave, however, has severed loss path issue and beamforming technology would be the best solution to address this problem: use an antenna array to form a directive beam and gain better transmission distance.

About TMYTEK

TMYTEK, founded in 2014, has been focusing on mmWave active/passive components and system development.



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Phase array, mmWave circuits, beam control logic, beam shaping & tracking algorithm, and BBox, a 5G mmWave even baseband chipset integration are all in TMYTEK’s scope. Last year, TMYTEK won the first prize of CIAT accelerator program with BBox, a 5G mmWave Beamformer product, and received recognition from 13 venture capitals.