

TMYTek launches 5G beamforming solutions

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TMY Technology (TMYTek), founded in 2014 to develop active and passive mmWave components, has just launched 5G beamforming technology solutions that can help address problems encountered by developers of 5G devices and systems, according to company founder and president SW Chang.

Chang said that mmWave has been adopted as new frequency spectrum for 5G NR (new radio) thanks to its traits of short wavelength and broad transmission bandwidth, but its poorer diffraction capability will result in path fading, which is an issue that must be tackled first.

The issue can be addressed through the design and production of antenna arrays, but the existing directionality of antenna pattern will lead to insufficient coverage, Chang continued, stressing that beamforming is the exact critical technology to fix the coverage insufficiency.

Chang said beamforming is an essential 5G technology that can help address antenna, baseband and algorithm problems. He disclosed that TMYTek has rolled out the world's only mmWave beamforming development kits, dubbed BBoX, to help 5G device and system developers shorten their development time. In addition, with a highly flexible architecture design, BBoX allows different developers to purchase only the exact kits they need, so as to maximize their cost-effectiveness.

Besides BBoX, TMYTek will also release AiP (antenna in package) modules in 2019 for application to 5G base stations, including 4X4 and 8X8 specs. The company has teamed up with one of China's top-3 antenna makers to turn out 5G antennas, by providing AiP modules, Chang revealed.

TMYTek is eyeing huge mmWave application opportunities, Chang said, adding that comprehensive ICT supply chains in Taiwan and great demand potentials in China, India, Japan and South Korea will usher in great growth momentum for the company.



*TMYTek founder and president SW Chang
Photo: Company, February 2019*

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