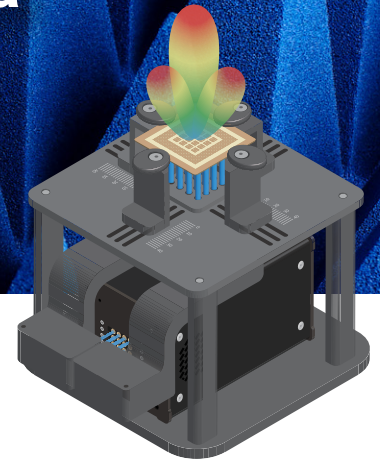


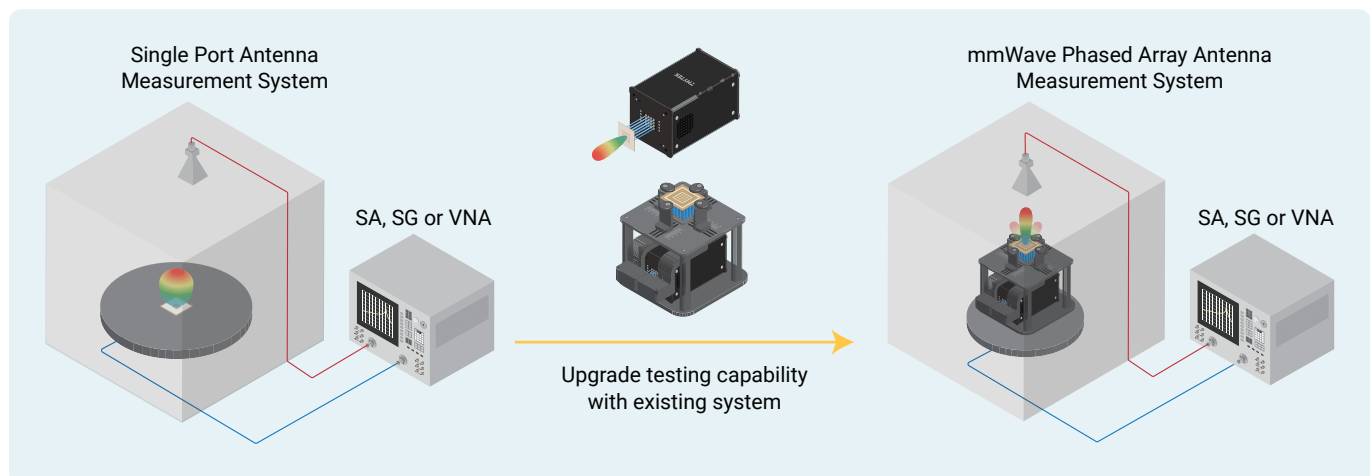
Chamber Upgrade Measurement Solution For mmWave Phased Array Antenna

Most Cost-Effective & Time-Efficient



Leverage your existing equipment and enable mmWave phased array antenna measurement immediately

TMYTEK offers a cost-effective mmWave phased array antenna testbed upgrade solution that integrates software and hardware, optimizing mmWave phased array antenna measurement without upgrading the entire system.



Cost-Effective | Time-Efficient

It is inevitable to upgrade the system to multiple transmitting RF sources to feed in the elements simultaneously to satisfy the test requirements.

- ✓ 16 RF channels for multiple channel phased array antenna testing
- ✓ Beamforming platform for flexible phased array antenna configuration and experiment
- ✓ Chamber-optimized test fixture for quick and precise measurement
- ✓ User-friendly designed fixture for chamber and phased array antenna form factor



BBox One 5G

RF: 24.25-27.5 GHz; 26.5-29.5 GHz; 37-40 GHz

Band: n258, n257, n260

RF Channels: 16

Tx/Rx Half Duplex

Individual Gain and Phase Control

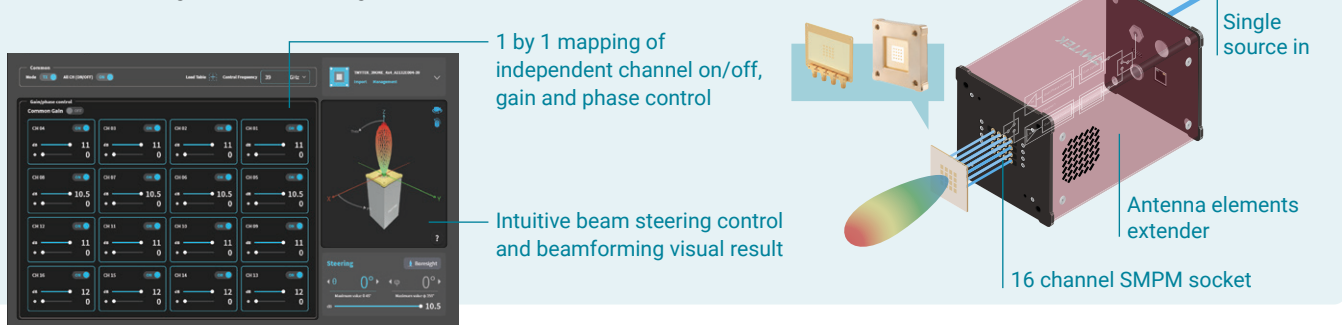
Beam control interface: SPI

API: C#, C++, LabVIEW, MATLAB, Python

Ready-to-use multiple phased array antenna elements extender

With the in-house design hardware and software integration platform, you can easily design your own phased array antenna. The BBox One 5G, a hardware solution with 16 independent RF channels, is used to empower users with the capability of multi-channel phase and amplitude control to fulfill the testing requirements of a mmWave phased array antenna.

In-house Design HW/SW Integration Platform



TMYTEK also provides an intuitive GUI - TMXLAB for quick verification and a complete API for the needs of automated integration tests.

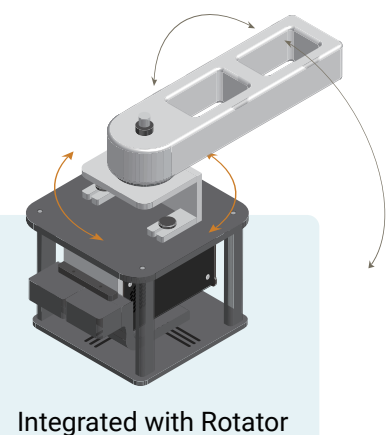
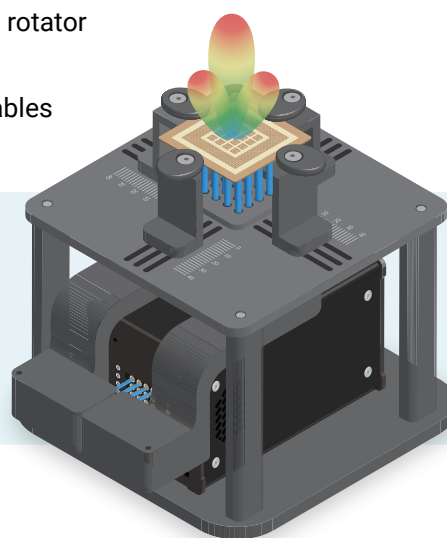
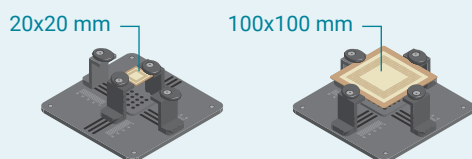
- Phased array antenna verification
- 16-port scalable extender
- PA, LNA, phase shifter, TR switch controllable
- Individual channel on and off, and gain and phase control
- Intuitive beam control platform
- Support C#, C++, LabVIEW, MATLAB, Python

Chamber-optimized test fixture

TMYTEK offers a variety of custom fixtures for phased array antenna testing. Chamber-optimized test fixture can upgrade an existing system's testing capability and uses an interference-free low Dk/Df antenna clamp to reduce the loss.

- Scalable size phased array antenna from 20x20 mm to 100x100 mm
- Designed to be integrated with turntable and rotator
- Horizontal and vertical 2D/3D scan testing
- Well-calibrated to connectors of extension cables

Scalable Matrix



Learn More



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