



MilliBox

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PRESS RELEASE

FOR IMMEDIATE RELEASE

MilliBox continues to lead by innovation at IMS 2025 in San Francisco

SAN FRANCISCO, CA JUNE 14, 2025 --- MilliBox the leader in compact benchtop mmWave anechoic chambers and antenna positioners continues to innovate for the 2025 edition of the IEEE MTT-S International Microwave Symposium in San Francisco CA, from June 15 to June 20, 2025. Several demonstrations are shown at **MilliBox booth 226**:

MilliBox demonstrates the first live **3D OTA capture of a J-Band 330GHz** antenna array with MBX32CTR. The test setup consists of an MBX32 chamber and a GIM04H-300E positioner, a parabolic reflector and probe, eliminating the far field distance constraints. This demonstration was brought together through cooperation with Eravant who developed the reflector and the probe as well as the frequency extenders for this system. The Antenna Under Test is a revolutionary 1x8 Antipodal Vivaldi Array on glass engineered by Nokia Bell Labs and its partners.

MilliBox demonstrates the usage of **MBX32R with fixed, moving and simulated radar targets** illustrating practical radar performance testing scenarios. This setup consists of MBX32 compact benchtop anechoic chamber with WLL09 instrumented wall, GIM04H-300X, 3 Axis antenna positioner, LIN04 programmable linear actuator and Eravant STR-793-12-D1 77GHz radar target simulator. This demonstration highlights the versatility and modularity of MilliBox Radar Test Systems for everyday radar characterization and tuning in mmWave and sub-THz domain.

MilliBox introduces an innovative new type of positioner, ARM01, to reach new testing applications like **planar Near-Field and RF over-the-air probe station measurement**. ARM01 is a robotic arm with 5 degrees of freedom specifically designed in house to carry probes or frequency extenders closer

to the device under test. This new positioner expands MilliBox market reach when it comes to affordable and modular antenna testing.

IEEE Student Design Competition 7: One of several student competitions organized by IEEE society this year asks students to compete for the best mmWave Multi-Beam 3D-printed antenna design. MilliBox provides the portable anechoic 6ft chamber **MBX03** and the **GIM05-340** 3D Spherical Roll 3-axis positioner, for the gain measurement of the contender's designs, the key metric in this competition.

“We launched MilliBox at IMS in Philadelphia seven years ago and since then, the demand for our products has risen continuously. As MilliBox is becoming a staple feature in many mmWave labs around the world, we continue to enrich the market with technical innovation in direct response to customer needs,” declared Dr Chinh H Doan founder and CEO of Milliwave Silicon Solutions Inc, the company behind MilliBox.

About MilliBox

MilliBox is a product line of mmWave and THz antenna testing systems based in San Jose, California, launched by mmWave IC pioneers Chinh Doan and Jeanmarc Laurent in 2018. With over 350 setups installed worldwide, MilliBox established itself as the leader in affordable and modular benchtop over-the-air mmWave antenna test solutions. MilliBox products are carefully designed and responsibly manufactured in the USA. **OTA your way!**

For more information millibox@milliwavess.com

