MilliBox

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PRESS RELEASE

FOR IMMEDIATE RELEASE

MilliBox expands presence at IMS 2024 in Washington DC

SAN JOSE, CA JUNE 6, 2024 --- MilliBox the leader in compact benchtop mmWave anechoic chambers and antenna positioners announces several demonstrations displayed during the 2024 edition of the IEEE MTT-S International Microwave Symposium in Washington DC from June 18 to June 20, 2024. Four demonstrations are shown at MilliBox booth 705 and three others will be shown by partners.

Booth 705: **MilliBox** unveils its new Compact Antenna Test Range system **MBX32CTR**. It consists of an MBX32 chamber and a GIM04-300E positioner, and with the addition of a parabolic reflector and probe, it eliminates 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 live demonstration shows a full 3D radiation pattern from 110GHz to 170GHz being captured and displayed in real-time.

MilliBox also demonstrates its innovative approach to mmWave radar sensor testing with the combination of **MBX32R** chamber, **GIM04-300X** 3-axis antenna positioner and LIN04 linear actuated radar target controller. This brings news possibilities in radar characterization and tuning in mmWave and sub-THz domain.

MilliBox showcases **MBX03** chamber with **GIM05-340**, a Spherical Roll 3-axis positioner, capable of native 3D radiation pattern with very wide unobstructed view angle.

Millibox shows the benefit of using the StabilityPlus line of RF cable assemblies from **Maury Microwave** for routing mmWave signals to a device under test mounted on MilliBox **GIM04-230X** 3-axis antenna positioner. Effectively routing RF signals in such a multi-axis positioner can be a challenge, but Maury's flexible coax are amplitude and phase stable which make them ideal for such applications. This demonstrates the wide range of GIM04 motions and the suitability of Maury Microwave cables for 3D OTA measurements.

Booth 1939: Eravant shows its integration of MilliBox **GIM04-300E** for its new Open Bed Compact Range with 150mm of quiet zone. The use of a 3D positioner for this application allows for OTA measurement of a high precision 3D radiation pattern. Because GIM04-300E can mount sub-THz frequency extenders, this solution is suitable for measurements from 24GHz to 170GHz.

Booth 1111: Copper Mountain Technologies shows its new **OTA-2H** completely integrated OTA test system developed in cooperation with Eravant and MilliBox. MilliBox contributes a full chamber **MBX32** and a positioner **GIM04-300E**, Eravant contributes the frequency extenders from the STO series up to 220GHz, and Copper Mountain Technologies supplies the USB VNA Cobalt 4209. This constitutes the most accessible full OTA system package on the market.

IEEE Student Design Competition 5: One of several student competitions organized by IEEE society this year asks students to compete for the best 3D-printed mmWave Dual Band 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 six years ago and since then, the demand for our products has risen continuously. We are pleased to see that this market ubiquity is reflected in this year's iteration of the IMS exhibition. As MilliBox is becoming a staple feature in many mmWave labs around the world, more partners and customers are happy to show their enthusiasm for our product portfolio," declared Dr Chinh H Doan founder and CEO of Milliwave Silicon Solutions Inc, the company behind MilliBox Product Line.

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 300 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