



TECHNOLOGY DESCRIPTION

The Wireless Connector is an advanced reverberation chamber designed to transform antenna and wireless device testing. It has a frequency range of 10–140 GHz, internal reflective pyramid for optimised performance and intuitive interface for easy operation. Its tabletop design drastically reduces space requirements and operational costs compared to conventional anechoic chambers. Antenex's proprietary technology automates data processing and diagnostics, offering fast feedback for radio frequency integrated circuit (RFIC) tuning, phased array optimisation and electromagnetic compatibility (EMC) testing. The system is ideal for modern applications, including beamforming antennas, 5G/6G devices, radar systems and automotive sensors. Supported functionalities include power spectral density analysis, out-of-band emission mapping, harmonic distortion detection and antenna efficiency testing, among others. It also includes automatic calibration modules.



INNOVATIVE ASPECTS

- Tabletop dimensions (80 x 80 x 80 cm) reduce lab space requirements by up to 80%
- Conducts total radiated power (TRP) measurements within seconds, compared to minutes in traditional chambers
- Can achieve low TRP uncertainty (0.1 dB) setting a new standard in measurement accuracy
- Covers at least the 18–140 GHz range, with flexibility for additional bands
- Automated data processing and diagnostics streamline testing and decision-making
- Significant savings on recurring operational costs, enabling scalable deployment for high-volume production



TECHNOLOGY READINESS

TRL 7 (2025)

COUNTRY OF ORIGIN

Netherlands

LATEST UPDATE

1/2025

SPACE FOR BUSINESS
BUSINESS FOR SPACE

CONTACT



TAGS	#OverTheAir Testing	#Antenna Measurement	#Millimetre Wave	#PhasedArray	#Radiated Emissions	#EMC
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APPLICATION AREAS	Wireless Communications	Automotive & Sensing	Aerospace & Defence	Safety & Security	Electromagnetic Compatibility	Satellite Testing
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