

dbSAFE MAX



Isolate. Test. Adapt. To The Max

The dbSAFE MAX has been engineered from the ground up with DVTEST's advanced double-wall design, providing >100 dB superior isolation from 300 MHz - 18 GHz. These RF test enclosures maximize working volume resulting in repeatable antenna measurements independent of UE placement. This is the most compact RF test enclosure and is perfectly suited for all wireless frequencies and protocols. The unit is available in two standard sizes; however, custom sizing can easily be accommodated.



Specifications for dbSAFE MAX

Isolation

Shielding Effectiveness (dB) (Isolation measurements taken adjacent to each seam)	300 MHz - 18 GHz > 100 dB
--	---------------------------

Construction

Wall Type	Double Wall Welded Aluminum Structure
Door Style	Front Opening Dual Lever Latch
RF Gasket	Triple Layer Braid Over Foam
Absorber	Broadband Lossy Foam Absorber

Enclosure Options

Cooling	Passive Waveguide Vent Active Waveguide Ventilation Module with AC Fan (110 cfm)
Waveguide Optical Data Feedthrough	6 Position Modules Available
USB to Fiber Interface	USB 2.0 / 3.0 / 3.1
Ethernet to Fiber Interface	Up To 10 Gbps
Thermal	Extreme Temperature Testing Forced Air -45°C to +90°C
Inter-Wall Absorber	Adds Additional RF Absorber Material Between Enclosure Walls
Base Type	Extruded Aluminum Trolley Heavy Duty Locking Casters Test Equipment Shelf

Measurement Software (Optional)

(System Controller Not Included)	Antenna Under Test OTA DUT Near-Field to Far-Field Spherical Measurement 3D Antenna Patterns Near-Field to Far-Field and Direct Far-Field
----------------------------------	--

All Dimensions WxDxH Inch (mm)

dbSAFE MAX (Internal usable dimensions)	Int. 18" (450) x 24.5" (612.5) x 30" (750) Ext. 24" (610) x 26" (660) x 32" (810)
dbSAFE MAX+ (Internal usable dimensions)	Int. 32" (800) x 32" (800) x 32" (800) Ext. 39" (991) x 39" (991) x 39" (991)

I/O Panel Options

RF Connectors	SMA, N, K (2.92 mm)
I/O Connectors and Data Modules	USB 2.0 / 3.0 / 3.1 Ethernet up to 1 Gbps with POE Audio 3.5 mm (2, 4 or 20 position) HDMI 1.4 Data Module D-Sub: DB-9, DB-15, DB-25, DB-37 (50 position and HD D-sub's available on request). 50V/5A Per Pin
AC Power	120/250 V - 15 A, 50/60 Hz AC Module
DC Power	0-100 VDC - 20 A, Two Position DC Module

Accessories

OTA Performance Verification	Noise Source and Power Sensor
Test Probe Antenna	dbDIRECT Cross Polarized Vivaldi
Calibration Antenna	dbDIRECT Series Standard Gain Horn

Positioning System (Optional)

Manual	Manually Adjusted Rotational and Translational Probe and DUT Mounts
--------	---

Ordering Information

Models	272003 dbSAFE MAX 272009 dbSAFE MAX+
Warranty	2 Years, Parts and Labor (with product registration)

Please contact factory for custom sizing, additional options, and unique design application ideas.

