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

#### 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	6 Position Modules Available
Feedthrough	
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	Int. 18" (450) x 24.5" (612.5) x 30" (750)
(Internal usable dimensions)	Ext. 24" (610) x 26" (660) x 32" (810)
dbSAFE MAX+	Int. 32" (800) x 32" (800) x 32" (800)
(Internal usable dimensions)	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-subs 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**

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

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

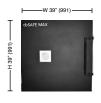
# dbSAFE MAX



# Side View



# dbSAFE MAX+



#### Side View

