

# STE2900 Wireless LAN Dual RF Test Chamber



STE2900



STE2902C



STE2902

## **YOUR HIGH DENSITY RF TEST SOLUTION!**

- ✓ *Designed specifically for fast and efficient WAP's and other Wireless LAN device testing*
- ✓ *Small rack mountable configuration to minimize space requirements*
- ✓ *Interference free high density testing*
- ✓ *Greater than 80 dB isolation at 6 GHz*
- ✓ *Highly efficient forced air cooling*
- ✓ *Custom connector and interface options available for your specific needs*

## **Perform Simultaneous RF Testing In Easy To Integrate Rack Mounted Enclosures!**

### **THE LEGACY CONTINUES!**

It all began over ten years ago when Ramsey's patented RF Shielded Test Enclosure freed the technician from the large expensive shielded screen room. For the very first time, RF tight measurements, tests, and alignments could be done on the bench. Our design technologies followed the explosive growth of wireless devices and today our STE's continue to be the standard for efficient and cost effective RF isolation testing. With high volume production of WAPS, blade servers and other wireless network devices, new automated test procedures became a necessity... and with that so did the need for an RF tight, interference free environment. Our legacy continues with the STE2900, the dual rack mount RF test chamber specifically designed for fast efficient simultaneous testing of the latest wireless network devices!

### **DESIGNED TO YOUR SPECIFICATIONS!**

Our broad line of STE series Shielded Test Enclosures were already being used for virtually all wireless LAN device tests. But the daunting task was how to streamline the testing, while reducing the physical space required for simultaneous high volume testing. Our engineers started to work with a number of manufacturers to find out exactly what was needed. Wow... multiple boards, blades, WAPS and other devices had to be physically mounted in close proximity. They couldn't "talk to each other", they couldn't "talk to the outside world", they had to run cool within their published specs in a small confined space over a long period of time, there needed to be suitable filtered I/O connections, RF feed throughs, RF isolation was critical, and there had to be a lot of them running simultaneously in a small lab. Pretty tall wish list. But once again, Ramsey came through...with flying colors!

### **THE BEST OF ALL WORLDS!**



We started with our patented STE design then we tackled each requirement. First, working with the top device manufacturers, we designed the size of the STE to accommodate all of their current and future wireless devices...yet gave it the capability of mounting two of them side-by-side in a standard 19" rack! From there we used our exclusive double lip technology to provide an RF tight door gasket offering greater than -80dB isolation at 6 GHz! Then our engineers took a long hard look at the heat factor. With the capability of being rack mounted, normal side venting was out of the question. Fresh air is drawn in from the oversized RF tight lower front door vent and exhausted out the rear of the chamber via the upper rear mounted continuous duty, RF tight exhaust fan. The result is a constant air flow throughout the enclosure, displacing the entire air volume within the enclosure 15 times a minute! Finally, because everyone's I/O requirements are unique, we utilized our universal stainless I/O panel which allows custom configuration while providing close to off-the-shelf delivery schedules!

### **SINGLE, DUAL RACK, PORTABLE CONFIGURATIONS!**

The STE2900 is available as a single stand-alone desktop test enclosure, dual side-by-side 19" rack mount enclosures, or dual rack mount enclosures in a stackable 8 rack unit shock mounted road case. Whatever configuration your test procedures require, we've got you covered. The rack mounted versions include a 7 rack unit (12¼" high) 19" rack mounted shelf custom designed to mount two STE2900's. The shelf can also be ordered separately to convert stand-alone units to dual rack mounted configurations.

**PROVEN IN A DENSE PACK ENVIRONMENT!**

Working closely with Veriwave, Inc. the STE2900 rack mount configuration has been integrated into their high density test platform to simultaneously test 8 enterprise class WLAN Devices in a standard 6' rack. Their test platform provides multi-client emulation to each device simulating thousands of client connections simultaneously. Their configuration together, with the STE2900, is capable of scaling up to 512 devices in a dense pack environment for fast and efficient testing while maintaining proper isolation between each device as well as the outside world.

**SPECIFICATIONS**

**SINGLE DESKTOP STE2900**

Product Part Number:	STE2900
UPC	871183003931
Outside Dimensions:	11"H x 8"W x 14"D (280mmH x 203mmW x 357mmD)
Nominal Inside Dimensions:	10"H x 7"W x 13"D (254mm H x 180mmW x 332mmD)
Weight:	11.2 lbs (5.1kg)
Construction:	.090 aluminum, .125 aluminum cover, gray powder coat
Hinges:	Heavy duty stainless steel
Clasp Handle:	Over-center compression lever latch, black powder coat
Cooling Input Vent:	2.2" (56mm) RF isolated, lower front door
Cooling Exhaust Fan:	2.36" (60mm) 9.1 CFM, 115VAC ball bearing, upper rear panel
RF Isolation:	Greater than -90 dB at 2 GHz Greater than -80 dB at 4 GHz Greater than -80 dB at 6 GHz
RF Absorbent Foam:	1/2" thick lined throughout, -24 dB attenuation
I/O Connections	Blank universal I/O panel provided standard, order required configurations below

*Note: RF Isolation specs are measured at 1M with terminated RF feedthrough coaxial connectors installed. Actual isolation & attenuation can be affected by adding additional filtered and non-filtered connectors. Check with Ramsey for connector specifications*

**DUAL 19" RACK MOUNT STE2900**

Product Part Number:	STE2902
UPC	871183003948
Outside Dimensions:	12.2"H x 19"W x 17.4"D (310mmH x 483mmW x 442mmD)
Weight:	30.9 lbs (14kg)

**DUAL 19" RACK MOUNT STE2900 INSTALLED IN A STACKABLE 8 RACK UNIT SHOCK MOUNTED ROAD CASE**

Product Part Number:	STE2902C
UPC	871183003955
Outside Dimensions w/covers:	19.25"H x 25"W x 22.5"D (489mmH x 635mmW x 572mmD)
Weight:	58.75 lbs (26.6kg)

**DUAL 19" RACK MOUNT KIT ONLY**

Product Part Number:	STE2900S
UPC	871183003962
Outside Dimensions:	12.2"H x 19"W x 17.4"D (310mmH x 483mmW x 442mmD)
Weight:	8.9 lbs (4kg)

**AVAILABLE I/O CONFIGURATIONS & OPTIONS**

RF Feedthrough:	BNC, TNC, SMA, Type-N
RF Filtered Data:	DB9 (10pf), DB9 (100pf), DB9 (1000pf), DB15 (100pf)DB15 (820pf), DB15 (1000pf) DB25 (1000pf), DB37 (1000pf), RJ45/DB9 filtered, RJ11/DB9 filtered, USB/DB9 filtered
Power Connections:	4-pole filtered power terminal strip, 6-pole filtered power terminal strip
Fiber Optic:	Fiber Optic ST bulkhead feedthrough
Fiber Transceiver:	S.I. Tech USB2.0 Fiber Transceiver System, up to 480 Mb/s

STE2900	Wireless LAN RF Shielded Test Enclosure, Single Desktop, Less Connectors	\$995.00
STE2902	Wireless LAN RF Shielded Test Enclosure, Dual 19" Rack Mount, Less Connectors	\$2,095.00
STE2902C	Wireless LAN RF Shielded Test Enclosure, Dual 19" Stackable Shock Case, Less Connectors	\$2,395.00
STE2900S	STE2900 Dual 19" Rack Mount Kit Only	\$129.00

**Order on-line at [www.ramseytest.com](http://www.ramseytest.com) or call our wireless specialists at 800-446-2295 to customize your STE2900**



Test Equipment Solutions for the Wireless Industry

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STE2900RevA