



# Concentric Technology Solutions Inc

Testing Solutions for the Wireless Industry

STE2300 RF Shielded Test Enclosure Data Sheet

## STE2300 - RF Shielded Test Enclosure

As isolated RF testing evolved into more applications, so did the size, design, and style of the STEs. The STE2200 was designed as the little brother and smallest STE available for small wireless devices. As wireless LAN devices became smaller, it made sense to step-up the STE2200 to a slightly larger design that also utilized our standard universal I/O interface panel. This not only allowed the testing of larger devices, but gave the user the same I/O capacity of our largest STE.

Size wise, we increased the width to 9", the height to 5" and the depth to 12". This together with the extended I/O capacity gives the user all the benefits of the larger STEs while keeping closely within size of his DUTs. And that's a cost savings. In addition to the standard universal I/O panel we also designed in the option for cross ventilation to cool the DUT. For the first time these advanced features became available in a small hand-held test chamber.

The STE2300 is constructed to the same precision-machined tolerances as our larger STEs to maintain an exceptionally well shielded environment. The universal I/O panel is constructed of heavy duty milled 304 stainless steel to assure stability even when well populated with I/O connectors and feedthroughs. Heavy duty, .090 and .125 aluminum is used throughout and our double lip, high performance RF gaskets are used at all joint locations assuring a reliable RF tight closure. Oversized hinges and latches are used to provide a physically tight seal every time. In addition, steady-hold hinges keep the access door at any fixed position making repetitive production testing easier. RF absorbent foam lines the interior to provide a typical RF attenuation of -90dB @ 3GHz makes the STE2300 the ideal "cross-over" chamber for smaller devices that do not require a larger area or hands-on manipulation.



### RF Shield Box STE2300 Key Benefits

- The larger brother of the STE2200
- Rear-mounted I/O panel for custom configuration
- Easy-snap latch for repetitive lab use
- Steady-hold hinge

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

Concentric Technology Solutions, Inc.

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- Designed to larger wireless devices requiring additional realtime RF and power connections

## RF Shield Box STE2300 Specifications

- **RF absorbent foam liner**
- Exclusive double lip RF tight gasket
- Heavy duty .090" and .125" aluminum
- Single easy-snap latch (Lockable version available)
- Steady hold hinge
- 300 series stainless steel (Tamper-proof security heads available)
- Isolation:
  - -100dB @ 1GHz
  - -90dB @ 3GHz
  - -80dB @ 6GHz
- Dimension:
  - Outside: 6.25"H x 9 "W x 12 "D
  - Inside: 5.25"H x 8 "W x 11 "

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## Custom Configuration Options

<b>RF FEEDTHROUGH:</b>	BNC, TNC, SMA, SMB, UHF, Type-N
<b>FIBER OPTIC:</b>	Fiber optic bulkhead feedthrough, ST, FC
<b>DUST COVERS:</b>	Dust cover caps with security chains available for all RF feedthrough connectors
<b>RF FILTERED DATA:</b>	DB9 (10pF), DB9 (100pF), DB9 (1000pF), DB15 (100pF), DB15 (1000pF), DB25 (310pF), DB25 (1000pF), DB37 (310pF), DB37 (1000pF), RJ45/DB9 Filtered, RJ11/DB9 Filtered, USB1/DB9 Filtered
<b>POWER CONNECTIONS:</b>	4-Pole filtered barrier strip feed through, 6-Pole filtered barrier strip feed through, internal surge protected power strips (110VAC, 220VAC International)
<b>VENTILATION OPTIONS:</b>	Dual side mounted RF filtered vents with single filtered exhaust muffin fan, passive vent only
<b>RF ABSORBENT FOAM:</b>	Standard 1/2" thick RF absorbent foam liner provides 24dB attenuation. 3/4" thick foam is standard on the STE3800 and available as an option to provide a flatter response
<b>FIBER TRANSCEIVER:</b>	Icron Technologies USB 2.0 Fiber Transceiver System available for devices up to 480 MB/s

*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 us for specific connector specifications.*

*STE series I/O interfaces, connectors, and options are frequently updated. Check with us for updates.*

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