

## TEST ENCLOSURES 5600 Series Test Box

ETS-Lindgren's 5600 series of RF Test Enclosures are self-contained, portable test cell enclosures designed for testing wireless devices in a development, production, and/or quality assurance environment, from 300 Hz to 13 GHz.



ETS-Lindgren's 5600 series of RF Test Enclosures are self-contained, portable test cell enclosures designed for testing wireless devices in a development, production, and/or quality assurance environment, from 300 Hz to 13 GHz. Other applications can include 802.11 A, B, G and N devices, Bluetooth, Zigbee, RFID, 3G, IOT, WiMax and LTE. These small device test enclosures can help isolate devices under test from outside signal interference allowing users to make reliable and repeatable measurements in a noise free environment. Tabletop and rack mount configurations are available.

## Key Features

- Frequency Range: 300 MHz to 13 GHz
- 90 dB+ of Isolation Shielding Effectiveness Over Frequency Spectrum
  - Planewave at 300 MHz to 2 GHz: 90 dB
  - Planewave at 2 GHz to 3 GHz: 90 dB
  - Planewave at 3 GHz to 6 GHz: 80 dB
  - Planewave at 6 GHz to 13 GHz: 70 dB
- Quick Availability
- Lightweight Tabletop or 19" Rack Mount Available
- Dual Layer Sealed Door with High Performance Braid Over Foam RF Seal with Dual Paddle Latches
- Interchangeable I/O Connector Panels

## Features

### I/O Connector Panels

Multiple preconfigured I/O panel options are available. As these panels are conveniently interchangeable in the field, users can update their existing 5600 test box to meet new testing requirements. Ethernet (POE) and USB 2.0 filter offerings are designed to maintain signal integrity and minimize electromagnetic interference from entering in or leaking out from the enclosure. DC power option is available using DB9 (5A max) or with terminal style (20A max) filtered connectors.

### Microwave Absorber

ETS-Lindgren lossy foam moderate performance RF absorber (constructed of a graded dielectric material) provides absorption at microwave frequencies, thus eliminating unwanted reflection within the RF enclosure.

### Dual Layer Sealed Door

5600 series test boxes have a precision installed "braid over foam" RF seal on the enclosure's integrated lip channel. This works to resist compression sets to more than 50,000 cycles and extends the lifespan of the RF seal performance.

### Durable Construction

Consistent to all ETS-Lindgren product lines, the 5600 series offers lightweight and robust construction, versatile for any wireless testing need.

- Dual layer reinforced door cover and durable hinges with stoppers that prevent bending and warping of the top side geometry (most susceptible area of an RF enclosure)
- High quality nickel fabric over urethane foam core dual gasket door seals
- All metal is conversion coated to maintain conductivity prior to powder coating to minimize oxidation.

# Specifications

## Electrical Specifications

<b>Frequency Range</b>	<b>Typical RF Isolation</b>
300 MHz to 3 GHz	90 dB
3 GHz to 6 GHz	80 dB
6 GHz to 13 GHz	70 dB

## Physical Specifications

Standard Model Number	Dimensions
5601 (Tabletop)	30.48 cm L x 45.72 cm W x 20.32 cm H (12 in x 18 in x 8 in)
5602 (Tabletop)	45.72 cm L x 60.96 cm W x 30.48 cm H (18 in x 24 in x 12 in)
5604 (9U Rack Mount)	53.34 cm D x 43.18 cm W x 38.1 cm H (21 in x 17 in x 15 in)

Note: The 9U Rack Mount box includes passive air ventilaton with an externally mounted 110 VAC exhaust fan with power cord.

	5601 (Tabletop) 12"W x 18"L x 8"H	5602 (Tabletop) 18"W x 24"L x 12"H	5604 (9U Rack Mount) 17"W x 21"D x 15"H
Panel - A	2 ea SMA 1 ea DB9 D-Sub	2 ea SMA 1 ea DB9 D-Sub	2 ea SMA 1 ea DB9 D-Sub
Panel - B	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet
Panel - C	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea DC Power	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea DC Power	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea DC Power
Panel - D	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface
Panel - E	8 ea SMA Connectors 2 ea N 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface	8 ea SMA Connectors 2 ea N 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface	8 ea SMA Connectors 2 ea N 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface

NOTE: Although I/O panels are interchangeable, only one (1) I/O panel may be mounted to a box at one time. Please contact your ETS-Lindgren representative for custom configurations.

## Other Specifications

### Pre-Configured Test Box Models:

	5601 (Tabletop) 12"W x 18"L x 8"H	5602 (Tabletop) 18"W x 24"L x 12"H	5604 (9U Rack Mount) 17"W x 21"D x 15"H
Panel - A	2 ea SMA 1 ea DB9 D-Sub	2 ea SMA 1 ea DB9 D-Sub	2 ea SMA 1 ea DB9 D-Sub
Panel - B	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet
Panel - C	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea DC Power	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea DC Power	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea DC Power
Panel - D	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface	2 ea SMA Connectors 1 ea DB9 D-Sub 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface
Panel - E	8 ea SMA Connectors 2 ea N 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface	8 ea SMA Connectors 2 ea N 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface	8 ea SMA Connectors 2 ea N 1 ea USB 2.0 1 ea Ethernet 1 ea AC Power Interface