

Concentric Technology Solutions Inc

STE4491M

19" RACK MOUNTABLE RF SHIELDED TEST ENCLOSURE | DATA SHEET

The STE4491M is a large 20RU rack-mountable RF shielded test enclosure that can operate as a standalone unit or mount in a standard 19-inch rack using the included brackets. The blank enclosure is ready for application-specific customization.

The enclosure provides high RF isolation, a front-loading swing-away door, RF absorbent foam, two I/O plates, and 120 mm honeycomb ventilation. Engineers can configure interfaces, power, and cooling around the requirements of the RF test application.

Key Benefits

- Greater than 95 dB RF isolation at 2.4 GHz and greater than 90 dB at 5.8 GHz
- 20RU design with brackets for standard 19-inch rack mounting
- Front-loading swing-away door with exclusive double-lip RF-tight gasket
- 3/4-inch insertion-loss RF absorbent foam liner
- Two I/O plates for application-specific interface configurations
- 120 mm honeycomb ventilation with optional 12 VDC, 115 VAC, or 230 VAC fans

Current Specifications

Specification	STE4491M
Category	Rack Mounted
Rack units	20RU
Loading style	Front
External dimensions	19.0" W x 25.7" D x 35.1" H
Internal dimensions	15.3" W x 21.9" D x 32.9" H
Isolation at 2.4 GHz	>95 dB
Isolation at 5.8 GHz	>90 dB
RF absorbent foam	3/4" insertion loss
I/O plates included	2
Included ventilation	120 mm honeycomb vents

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

Concentric Technology Solutions, Inc.

TEL: 817-503-8862 FAX: 817-503-8866 Email: CTS-Sales@ctscorp-usa.com

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Website: <http://www.ctscorp-usa.com>

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STE4491M - Features & Configuration

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Standard Features

RF isolation: Greater than 95 dB at 2.4 GHz and greater than 90 dB at 5.8 GHz.

Rack mounting: Included brackets support installation in a standard 19-inch rack system.

RF absorbent interior: The enclosure uses a 3/4-inch insertion-loss RF absorbent foam liner.

Front-loading access: A swing-away front door provides convenient access to the device under test.

Ventilation: 120 mm honeycomb ventilation is standard. Optional 12 VDC, 115 VAC, or 230 VAC fans are available.

Configuration

The STE4491M is supplied with no standard interface connectors or power. Two I/O plates allow engineers to configure the enclosure with application-specific connections for external test equipment.

Available interface options include coaxial, USB, Ethernet, video, serial, audio, fiber, AC, DC, and other custom connections. Reflection-loss solutions and an optional security locking latch are also available.

Typical Applications

- Wi-Fi 4, Wi-Fi 5, Wi-Fi 6 and Wi-Fi 6E testing
- Wireless device development and validation
- Bluetooth and RFID testing
- 3G, 4G and 5G device testing
- Rack-based RF laboratory and engineering testing
- Manufacturing and production testing

Shipping & Warranty

- Approximate shipping weight: 110 lb
- Shipping requirement: Must ship on a pallet
- Warranty: 1 year

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