

TEMPEST IPS Security Container (TIPS)

Trusted Systems produces a Full TEMPEST IPS Container for the shielding of non-TEMPEST rack mounted electronics in high threat classified applications. It combines the physical protection of the GSA Class 5 IPS Security Container with a high performance EMI/RFI shielded enclosure. It provides broadband protection for the entire rack meeting NSA specification 94-106, freeing the user from cost and performance constraints of individually shielded devices. Any combination of devices can be shielded whether COTS, zoned or TEMPEST, enabling complete configuration flexibility regardless of changes in hardware, technology or security landscape.



Standalone TEMPEST Enclosure (STE)

When physical protection is not required, Trusted Systems offers standalone enclosures that provide the same broadband EMI/RFI shielding meeting NSA specification 94-106 without the physical protection of the IPS Container. Standalone TEMPEST enclosures can be custom built in a variety of depths and heights up to 42U rack space.

EMP / HEMP Hardened Enclosure

Both Trusted Systems' TIPS Security Containers and Standalone TEMPEST enclosures can be effective hardened shelters against Electromagnetic Pulse (EMP) or High-Altitude Electromagnetic Pulse (HEMP) threats meeting MIL-STD-188-125 1 & 2. They can be used to shield on-line or off-line equipment such as network devices, radios or communications gear or power distribution equipment to reconstitute operations following an EMP event or attack. In addition, the physical barrier of the IPS container protects against malicious physical attacks such as blast or gunfire.



TECHNICAL SPECIFICATIONS

TEMPEST IPS Security Containers

Model	TIPS281WS	TIPS521WS	TIPS621FWS
Rack Size:	10U x 20-30"D	21U x 20-30"D	27U x 20-30"D
Heat Load Range (Watts):	275 – 850	750 – 2350	1500 – 4700
Outside Dims (HxWxD):	28.5"x30"x65"	51.25"x30"x65"	62.5"x30"x65"
Inside Dims (HxWxD):	20"x21.5"x34.5"	42.75"x21.5"x34.5"	54"x21.5"x34.5"
Approx. Weight:	1710lbs	2550lbs	2900lbs
Input Power:	0-277VAC, 30A, 0-60Hz		
Data Input/Output:	Removable data I/O plate can be configured with 6 or 12-barrel fiber waveguide filters, Ethernet fiber optic isolation filters, communication and control line filters, shielded bulkhead connectors		
Features:	Thermostatically controlled cooling system, rear access doors for equipment install and cabling, adjustable rack depth, red/black cable separation, earth ground studs, optional caster base		

Standalone TEMPEST and EMP/HEMP Hardened Enclosures

Model	TSL351	TSL471	TSL581	TSL681	TSL801
Rack Size:	13U x 20-30"D	21U x 20-30"D	26U x 20-30"D	32U x 20-30"D	42U x 20-30"D
Heat Load Range (Watts):	275 – 850	550 – 1600	1500 – 4700	2300-7000	3150-9500
Outside Dims* (HxWxD):	35"x32"x42"	47"x32"x42"	58"x32"x42"	68"x32"x42"	80"x32"x42"
Inside Dims* (HxWxD):	32.5"x30"x36"	44.5"x30"x36"	55.5"x30"x36"	65.5"x30"x36"	76.5"x28"x36"
Approx. Weight:	350lbs	400lbs	500lbs	750lbs	1200lbs
Input Power:	0-277VAC, 30A, 0-60Hz				
Data Input/Output:	Removable data I/O plate can be configured with 6 or 12-barrel fiber waveguide filters, Ethernet fiber optic isolation filters, communication and control line filters, shielded bulkhead connectors				
Features:	Thermostatically controlled cooling system, Roll-out rack or adjustable rail options, optional rear access door for equipment install and cabling, earth ground studs, optional caster base, *custom sizes available				

Minimum Attenuation per NSA Specification 94-106 (E-Field and Plane Wave): 100dB @ 14kHz to 10GHz

With the addition of an EMP protected power line filter, all Trusted Systems shielded solutions will meet the EMP/HEMP requirements of MIL-STD-188-125 1 & 2.

The graph shown below illustrates typical shielding performance in relation to NSA Specification 94-106.

