

## 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 shielded rack 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

### Minimum Attenuation per NSA Specification 94-106 (see graph below)

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.

### Shielded IPS Security Containers

Model	TIPS281WS	TIPS521WS	TIPS621FWS
Rack Size:	10U x 20-30"D	21U x 20-30"D	27U x 20-30"D
Max Heat Load:	1100 W	3150 W	6300 W
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 Filter:	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:	Adjustable depth 19" rack rails, thermostatically controlled cooling fans, side access doors, red/black cable separation, earth ground studs, optional caster base		

### Shielded Standalone Rack Enclosures

Model	TSL351	TSL491	TSL581	TSL681	TSL802
Rack Size:	13U x 20/25/29"D	21U x 20/25/29"D	26U x 20/25/29"D	32U x 20/25/29"D	42U x 20-30"D
Max Heat Load:	3150 W	6300 W	6300 W	6300 W	12600 W
Outside Dims* (HxWxD):	35"x32"x42"	49"x32"x42"	57"x32"x42"	67.5"x32"x42"	80"x32"x42"
Inside Dims* (HxWxD):	33"x30"x38.5"	47"x30"x38.5"	55"x30"x38.5"	65.5"x30"x38.5"	78"x28"x38.5"
Approx. Weight:	350lbs	400lbs	500lbs	750lbs	1200lbs
Input Power Filter:	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:	Roll-out rack or adjustable rail options, thermostatically controlled cooling fans, optional access doors for install and cabling, earth ground studs, optional caster base				
	<i>*Custom sizes available</i>				

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

