



**ALL-HAZARDS EMP PROTECTION**  
**For SYSTEMS, NETWORKS, FACILITIES and ROOMS**

Civilian critical infrastructure can be composed of rooms, systems, facilities, campuses, and networks spanning regions or continents. An overall design approach to business continuity will require different levels of protection depending on the importance of the system element being protected and its vulnerability. Instant Access Networks, LLC devised the following way to show ranges of protection that may be relevant to various elements (power, data, communications) in a 4 level system-wide protection method where level three meets or exceeds various MIL SPECS for EMP and TEMPEST requirements:

IAN LEVEL	Base Shield	Compare to MIL SPEC 188-125		
		1MHz- 10 MHz (ea 20 dB is a factor of 10)	10 MHz-1GHz	1GHz-10GHz (-10 series only)
EMP 4	140 dB	60dB above MIL SPEC to 1KHz	140 dB (60 dB above MIL SPEC)	140 dB
EMP 3	100 dB	20dB above MIL SPEC to 1KHz	100 dB (20 dB above MIL SPEC)	100 dB
EMP 2	60 dB	20dB below MIL SPEC to 1KHz	60 dB (20 dB below MIL SPEC)	60 dB
EMP 1	30 dB	50dB below MIL SPEC to 1MHz	30 dB (50 dB below MIL SPEC)	30 dB

IAN has produced and tested products that meet each of these ranges including transportable pods or rooms and mobile command trailers that exceed EMP levels 3 and 4 for radiated pulse and injected pulse at level 3. These are EMP-safe inserts that fit into standard cargo containers or trailers and can come with biological/chemical/radiological air filter systems making this an all-hazards safe system.



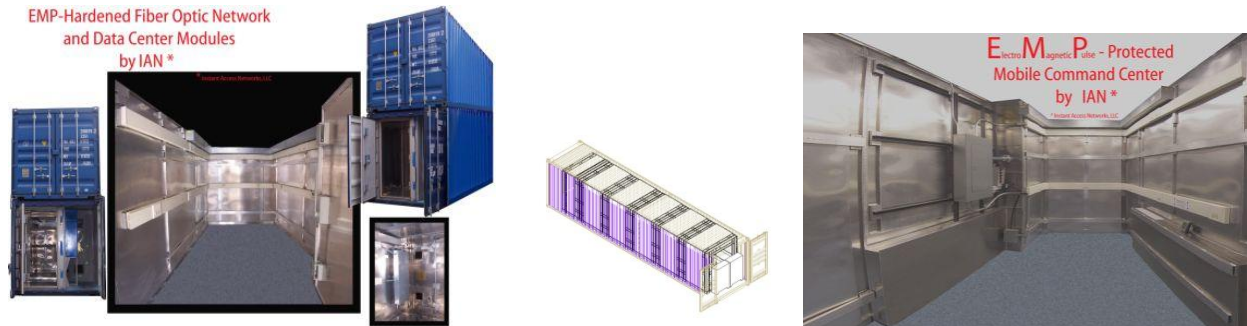
The 32 feet long EMP-safe mobile command center is light enough (under 14,400 lb) to be pulled by a pick-up truck with a driver NOT required to have a commercial driver’s license.

## SPECIFICATIONS for EMP-PROTECTED TRANSPORTABLE PODS

Instant Access Networks, LLC (IAN) produces electromagnetic pulse (EMP) protected rooms that insert into standard ISO cargo containers. The following specifications indicate the dimensions and weights of the units including the cargo container shells. The EMP protection has been tested without consideration of incidental protection that may be provided by the cargo container shell.

Transportable PODS						
LEVEL	LENGTH	EXTERNAL SIZE	INTERNAL SIZE	SHELL WT	INSERT WT	COMBINED WT
EMP 4	20'	8'X20'X8'6"	6'5 1/2"X varies* X7'1/2"	4800 lbs	4900 lbs	9700 lbs
EMP 3	20'	8'X20'X8'6"	6'9 1/2"X varies* X7'4 1/2"	4800 lbs	3600 lbs	8400 lbs
EMP 4	40'	8'X40'X9'6"	6'5 1/2"X varies* X8'1/2'	8400 lbs	8575 lbs	16,975 lbs
EMP 3	40'	8'X40'X9'6"	6'9 1/2"X varies* X8'4 1/2"	8400 lbs	5800 lbs	14,200 lbs
		(others possible)	(internal length varies)		(wt is approx)	(wt is approx)

The pods and trailers make use of an IAN designed common ground plane wall supporting all EMP-safe electrical connections and penetrations. They can include EMP-safe renewable energy systems and generators for back-up or off-grid needs. In each of these pictures, examples of the common ground plane and penetration panels can be seen. Pods can be integrated data centers, networks or factories.



TRANSPORTABLE PODS				
COMPONENTS	LEVEL	DESCRIPTION	DIMENSIONS	MISC
Outer Door	3 (system)	Steel	35 1/4" x 7'	Single layer system
Inner Door	4 (system)	Aluminum	34 1/4" x 6' 6 1/2"	Dual layer system
Air Vents	3 or 4	EMP protected wave guides	10" square	2 or more
Power Filter	3 or 4	225 or 400 Amp triple phase each	Varies	1-3 filters per module
Fiber Optic Pipe	3 or 4	Allows passage of fiber optics	1" wide or larger	1 or more
Penetration Panel	3 or 4	Brass panel for special connections	12" square	1 or more
Common ground	3 or 4	Ground plane wall for all connections	Varies	Meets pulse injection tests
Optional Generator	2-4	12.4 kw Diesel Generator or larger	Varies	With transfer switches
Electric Distribution	3-4	200 amp distribution panel prewired	Varies	Can be higher cap
Electric System	3-4	Electric outlets and RF conduits	Along 3 walls	Prewired conduits
Static flooring	3-4	Static proof rubber flooring	Full room	Color options

For information or consultation contact Chuck Manto, CEO

Email: [cmanto@stop-EMP.com](mailto:cmanto@stop-EMP.com).