

# ENCONNEX™

## DefenseShield™

ELECTROMAGNETIC COMPATABILITY (EMC)  
HARDENED ENCLOSURES



### RF SHIELDING FOR CYBERSECURITY

The DefenseShield Electromagnetic Compatibility (EMC) Hardened Enclosures are radio frequency (RF) shielded cabinets that provide military-grade performance to shield against technical surveillance and block electromagnetic fields. They provide shielding from RF interference, EMC, and power conditioning to provide a secure environment where data is protected. DefenseShield cabinets provide compelling solutions to the most common, high-requirement cybersecurity and defense applications.

#### Maximum Security

DefenseShield products provide power and data line filtering, shielding from electromagnetic interference, RF interference, and overall EMC to create a secure environment where data is protected.

#### High Performance

Our RF shielded products are purpose-built to effectively attenuate signals from 1MHz to 10GHz. Government agencies, defense contractors, communications companies, internationally accredited labs, and tech giants have tested, approved, and implemented these products.

#### Cooling

All DefenseShield products provide significant airflow with built-in fan systems providing up to 10kW of cooling to keep all enclosed equipment running efficiently.

#### One of a Kind

The only RF shielded cabinet engineered for data center deployment at scale. UL-listed, provides ample cooling, and lightweight enough for traditional data center floors.

### Who Needs Cybersecurity?

#### Defense/Military/Government/Engineering Labs

The DefenseShield enclosures are used for cybersecurity purposes. The DefenseShield 42U is a server cabinet option to shielded rooms to protect against EMI and side-channel attacks. The DefenseShield Wall Mount Enclosure is a smaller, wall-mountable, enclosure that provides the same protection. The DefenseShield Light is a lower cost alternative providing the same level of protection with a little less cooling capacity.

### Why Choose a Shielded Rack?

- Lower total cost than SCIFs or Faraday cages
- Lower maintenance
- Lower implementation cost
- Allows use of off the shelf electronics as opposed to expensive TEMPEST equipment
- Lasts for generations of IT systems
- Provides granular, sectionalized signal and physical security

### Compliance and Standards

DefenseShield enclosures are tested in accordance with IEEE-299, MIL-STD-285, and NSA 94-106. The cabinets enable systems to meet standards for SIGINT and emanation security such as MIL-STD-461 and TEMPEST requirements. They are UL 2416 (NWIN) listed to allow for commercial use in high reliability environments.

Contact Us For Your Next Data Center Project

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