



HARDWAREWALL®



HardwareWall®

Tactical Secure Data Transfer System

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Current Environment

Military, security and law enforcement operations critically depend on the timely sharing of data, while analysts and decision makers demand integrated technologies that employ the latest techniques for data collection, analysis and retrieval. As data often resides across various domains and at different levels of classification, the ability to view and fuse data is critical in providing a greater level of fidelity and visibility during operations.

Boeing Solution: The HardwareWall® 2U-3L Tactical Appliance: Rapid, Rugged, Automated & Secure

Designed by The Boeing Company, the HardwareWall® 2U3L Tactical Appliance is an off-the-shelf cross domain solution that combines security, speed, ruggedness and reliability, with ease of integration and modularity. It supports high to low, low to high and bidirectional transfer within and between multiple security domains – Top-secret, Secret and Unclassified. HardwareWall® systems enable bi-directional and near-real-time transfer of data among TS/SCI systems and unclassified systems on open networks.

HardwareWall® supports many protocols, including but not limited to: streaming video and position data, logistics data, email, Microsoft formats, web browsing, real-time message traffic and large and small files in various classified and unclassified formats.

Security-Speed-Reliability

HardwareWall® combines physical one-way transfer, mandatory access control, data labeling, content review and multiple proxies to enable secure, rapid cross-domain transfer of data with various formats and in large quantities. With the

ability to use 10Gbps fiber connections end to end, the HardwareWall® is able to achieve some of the highest raw transfer speeds in the industry—winning multiple independent transfer speed comparisons using actual customer use-cases.

Versatility: Built for extreme environments

The HardwareWall® is deployable across many tactical platforms because it has been independently tested to meet or exceed MIL-STD-810G, MIL-STD-461F, DO-160 and TEMPEST standards for maximum protection against shock, vibration, salt fog, humidity, extreme temperatures and EMI/RFI. This highly compact system features a lightweight aluminum alloy (6061 T6) unibody for a more rugged chassis, removable battery and solid-state drives and numerous mounting options making it ideal for space-limited environments. The new form factor is a 23.5lbs, 16 inch deep, 2U rack mount to support demanding SWaP scenarios such as military aircraft, Humvees, and UUVs. High speed, low power, reduced weight and size all combine to provide industry leading secure transfer of critical mission data.

Key Features:

- Compact form factor: 2U with 16 inch depth
- Operating Temperature: -30C to +50C
- Humidity: 5% to 95% (MIL-STD-810G)
- Operational Shock: 40G (MIL-STD-810G)
- Non-operational Shock: 75G
- Environmental/EMI/TEMPEST: MIL-STD-810G, DO-160, MIL-STD-461F and NSTISSAM TEMPEST/1-92
- Removable CMOS Battery and Hard Drive



Part Number	HWW-2U-3L-4
Chassis	Custom
Electronics	COTS
Max AC Power (W)	535
Form Factor	2U rack mount
H x W x D (inches)	3.47 x 19 x 16
Ruggedized/Airborne Ready	Yes
Circular Military Connectors	Yes
DO-160 Certification	Yes
TEMPEST Certification	Yes
MIL-STD-461	Yes
MIL-STD-810	Yes
Architecture	x86_64
Number of domains	3
Networks per domain	4 (10/100/1000 Mbps)
CPU count	Intel® Core™ i7 – 6 (Quad Core)
Operating System	RedHat Enterprise Linux
Removable Drives	Yes
Hard Drive type	1.8 form factor
Hard Drive count	6
Internal fiber connections	Yes (10 Gbps)
Management interface	Video Graphics Array (VGA), Serial, Ethernet
PL-support	3, 4 or 5
Protocol Support	Same as enterprise. Available upon request
Remote Tasking	Yes
SELinux	Yes