

PHALANX II RUGGED REMOVABLE NETWORK ATTACHED STORAGE



The Phalanx II is SWaP optimized and provides high performance, high capacity and secure data storage for Unmanned Aerial, Underwater and Surface Vehicles (UAVs, UUVs and USVs) and Manned Airborne ISR applications. This small form factor NAS weighs less than eight pounds, provides up to 32TB of storage capacity with two Solid State Disks (SSDs) and supports RAID 0 (striping) and RAID 1 (mirroring). System configuration and management is provided via a convenient web based GUI or CLI.

The Phalanx II houses two Removable Media Modules (RMMs) which can be quickly removed to off load data and declassify the system. The RMMs can then be moved to separate locations and plugged into another Phalanx II NAS (or compatible ground station) on any other network. When used in conjunction with a network switch, the Phalanx II can communicate with any other network enabled device to store and retrieve data. This eliminates the need for separate direct attached storage devices for each computer or workstation in a network centric environment.

Data security is a key component to any mass storage application and the Phalanx II addresses this with optional support for AES-256 hardware and file level encryption, FIPS140-2 and hardware and/or software triggered Data Elimination.

The Phalanx II allows networked devices to share and store data using all common network services: NFS (V3/V4), SMB/CIFS, FTP, TFTP, RSYNC and SSH. It supports a variety of network based file systems that allow multiple hosts to share and store information. Network connections are provided through four load balanced Gigabit Ethernet ports, and it can support dual optical (or copper) 10 Gigabit Ethernet ports for low EMI susceptibility.

FEATURES

- MLC or SLC Solid State Disk devices
- Intel Core i7 CPU
- Video: 2x or 3x DVI/HDMI Video Output
- I/O: 5x GigE, 2x 10GigE, USB 2/3, Serial (RS232/422)
- Operational temperature from -40° to +71°C
- TCG Compliant AES-256 and FIPS140-2 hardware encryption
- AES-256 file level encryption
- MIL-STD-810G, MIL-STD-461F, MIL-STD-704F/1275D
- RAID Levels: RAID 0 (Stripe), RAID 1 (Mirror)
- Made in USA



PHALANX II RUGGED NAS

TECHNICAL SPECIFICATIONS

NETWORK INTERFACE

- Five 1Gb Ethernet
- Two 10Gb Ethernet (Optional)

MECHANICAL SPECIFICATIONS

- Width: 215mm (8.46")
- Height: 145mm (5.71")
- Depth: 226.5mm (8.92")
- Weight: 4.35 Kg (9.59 lbs) (no devices installed)

ELECTRICAL SPECIFICATIONS

- Line voltage: 12-36 VDC
- Line Power: 25-60 Watts (Option Variable)
- 50ms Hold-up Optional

ENVIRONMENTAL SPECIFICATIONS

Temperature:

- -40 C to 71 C Operating
- -40 C to 85 C Non-operating

Humidity:

- 5% to 95% Non-condensing

Altitude:

- 0 to 35,000 ft Operating
- 0 to 50,000 ft Non-operating

NAS FEATURES

- Enhanced Graphical User Interface
- Network Services: NFS (V3/V4), SMB/CIFS, FTP, TFTP, RSYNC, SSH
- Monitoring: SMART, SNMP, Email (Health/Perf.)
- File Systems: EXT3, EXT4, XFS, JFS
- RAID Levels: RAID 0 (Stripe), RAID 1 (Mirror)
- AES-256, FIPS140-2 Encryption
- Secure Erase Data Elimination

Phoenix International

Phoenix International is an AS9100 Rev D/ISO 9001:2015 certified, Service Disabled Veteran Owned Small Business (SDVOSB) manufacturer of Rugged COTS data storage products. Phoenix developed state of the art enabling technology provides users with mass storage products that ensure the highest performance data storage and network attached systems. These systems range in size and application from multi-terabyte Fibre Channel RAID, NAS and Storage Area Network (SAN) configurations to conduction cooled plug-in VME/VPX solid state (flash) storage modules.

For lower size, weight, and power applications, not requiring removable storage devices, consider the original Phalanx II.



Phoenix Phalanx II Rugged NAS



Phoenix International is AS9100 Rev D/ISO 9001:2015 Certified

Phoenix International Systems, Inc.
812 W. Southern Ave., Orange, CA 92865-3224
(714) 283-4800 Fax (714) 283-1169
info@phenxint.com www.phenxint.com