RPC24 NAS
Rugged All SSD Storage Array

The RPC24 NAS is a rugged, resilient all SSD storage array designed for high performance, high-capacity tactical edge data capture applications. Its rapidly removable SSD magazines enable a full magazine to be swapped out for a fresh magazine to store and move data from emerging edge environments quickly and without any tools. The RPC24 targets Mobile (Air-Sea-Ground) and Fixed Expeditionary environments with its MIL-STD-810G and MIL-STD461F certified design.

The RPC24 NAS houses two removable magazines with up to 12 SSDs each which can be quickly removed to off load data. The magazines can then be moved to separate locations and plugged into another RPC24 on any other network for further analysis. When used in conjunction with a network switch, the RPC24 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 edge storage system and the RPC24 NAS addresses this with optional support for AES-256 hardware and file level encryption, FIPS140-2 validation and hardware and/or software triggered Secure Erase and Data Elimination.

The RPC24 NAS allows networked devices to share and store data using all common network services: NFS (V3/V4), SMB/CIFS, FTP, TFTP, and RSYNC. It supports a variety of network based file systems that allow multiple hosts to share and store information. Network connections are provided through load balanced Ethernet ports, available from Gigabit to 100 Gigabit, and it can support multiple optical (or copper) Ethernet ports for low EMI susceptibility.

FEATURES

- Two each 12 drive (24 drives total) Removable Storage Magazines
- Two GbE and two copper 10GbE networks ports standard. Copper and optical interfaces up to 100GbE available
- 12Gb SAS JBOD Configuration with optional split bus
- TCG Compliant and FIPS 140-2 Certified Encryption
- Secure Erase/Data Elimination
- Enclosed and Electrically Isolated Drive Magazines
- Magazines Rated at 10K Mating Cycles
- Operational Altitude to 40,000 ft
- Operational Temperature 0° to 70°C
- 40 to 440Hz, 90/240 VAC Input Operation
- MIL-STD-810G, and MIL-STD-461E Certified
- Management GUI
- Made in USA

We Put the State of the Art to Work sm

PHOENIX RPC24 2U Storage Arrays

TECHNICAL SPECIFICATIONS

HOST INTERFACES
- Two 1Gb Ethernet (GUI & IPMI)
- Two 10Gb Ethernet
- Two 40Gb Ethernet (Optional)
- Two 100Gb Ethernet (Optional)
- Two 12Gb SAS (Optional)

ELECTRICAL SPECIFICATIONS

AC Input Power	90 to 264 VAC
	40 to 440HZ
Input Current	3.3A (115 VAC),
	1.7A (230 VAC)

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
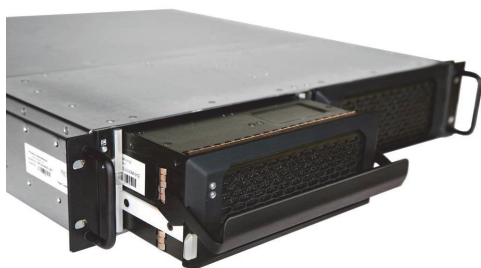- RAID Levels: RAID 0 (Stripe), RAID 1 (Mirror), RAID 5 (Parity), RAID 6 (Dual Parity) RAID 10 (Striped Mirror)

PHYSICAL

Height:	3.44" - 2U
Weight	<39 lbs (unpopulated)
Width:	17.55" body
Depth:	19.52" Rack mount flange to chassis rear panel

ENVIRONMENTAL
Shock & Vibration

Operating Shock	20g, 11 msec, sawtooth
Nonoperating Shock	300g, 2 msec
Operating Vibration	2.11g RMS @ 15-2000Hz
Nonoperating Vibration	7.87g RMS @ 15-2000Hz

ENVIRONMENTAL
Temperature/Humidity
0 to 70°C (operational)
-40 to 85°C (non-operational)
5% to 95% non-condensing

Altitude
0 to 40,000 ft (operational, non-operational)

COMPLIANCE
MIL-STD-461: RS103, RE102, CE102, CS114
FCC 15.109:2006 Class A (Radiated Emissions)
FCC 15.107:2006 Class A (Conducted Emissions)
EU EMC and Safety

SECURITY OPTIONS
- AES-256 Encryption (Hardware and File Level)
- FIPS140-2
- Secure Erase Data Elimination

Phoenix International
Phoenix International is an AS9100 Rev D/ISO 9001:2015 certified, Small Business 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 storage and data network 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 VPX/VME solid state (flash) storage modules.

Removable 12 Drive Magazine

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

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