



RPC24

Ruggedized 2U Storage Arrays



Phoenix International's RPC24 is a rugged high performance Fibre/SAS/iSCSI Host Channel, SAS Solid State/Hard Disk Drive RAID Storage Array that delivers a level of operational environmental capability not previously available in COTS Data Storage Systems.

The RPC24 features two 12 drive removable magazines housed in a rugged 2U (3.5") panel height enclosure providing 16Gb FC, 12Gb SAS, or 10GigE iSCSI host interfaces to high performance SAS SSDs and HDDs.

Incorporating aluminum and steel in its rugged construction, the RPC24 weighs only 51 lbs with a full complement of 24 SSDs, and is less than 20" deep.

The RPC24 supports TCG compliant and FIPS 140-2 certified encryption and is certified to military specifications MIL-STD-810G and MIL-STD-461E.

The unique design of the RPC24's rugged, cableless, passive midplane-based, high density 2U chassis provides an increased environmental operational envelope (0° to +70°C, 45,000 ft altitude with SSDs), redundant, hot-swap components and massive storage capacity, while assuring the highest level of data availability.

FEATURES

- Single or Dual Active, Redundant RAID Controllers
- MIL-STD-810G, and MIL-STD-461E Certified
- Two each 12 drive (24 drives total) Removable Storage Magazines
- Eight 16Gb/sec Fibre Channel, 12Gb SAS, or 10GigE iSCSI ports
- TCG Compliant and FIPS 140-2 Certified Encryption
- Secure Erase
- Sustained Read/Write Data Rates to 6400MB/s and 5300MB/s respectively
- Battery Free Cache Backup
- Enclosed and Electrically Isolated Drive Magazines
- Magazines Rated at 10K Mating Cycles
- Operational Altitude to 45,000 ft
- Operational Temperature 0° to 70°C
- 40 to 440Hz, 90/240 VAC Input Operation
- Redundant, Hot-Swap Components/FRUs
- Management GUI and Failover Software
- Made in USA

We Put the State of the Art to Worksm



PHOENIX RPC24 SAS 2U Storage Arrays

TECHNICAL SPECIFICATIONS

HOST INTERFACES

3000 Series:

4 Host Ports (max)
16Gb Fibre Channel, 10GigE iSCSI, 12Gb SAS

4000 Series:

8 Host Ports (max)
16Gb Fibre Channel, 10GigE iSCSI, 12Gb SAS

PERFORMANCE

3000 Series:

3300MB/sec Reads, 2400MB/sec Writes

4000 Series:

6400MB/sec Reads, 5300MB/sec Writes

RAID OPERATION

RAID Levels *	0, 1, 5, 6, 10, 50, 60,
(*Configuration Dependant)	NRAID and J-BOD
Cache	Up to 4GB per controller
Cache Backup	Yes, battery free
Virtual Disks per system	32
Volumes per virtual disk	256

MANAGEMENT

Consoles	WEB GUI, CLI, Array Administrator
Interface Types	RS232, 10/100 Ethernet
Protocol Support	SNMP, SSL, SSH, SMTP
Management Software	RAIDar, SMC

ELECTRICAL

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

DATA AT REST SECURITY

AES 256 Encryption
TCG Compliant
FIPS 140-2 Certified
Instant Secure Erase

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 (Solid State Disks)

Temperature/Humidity

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

Altitude

0 to 45,000 ft (operational, non-operational)

ENVIRONMENTAL (Rotating Disks)

Temperature/Humidity

5 to 55°C (operational)
-40 to 85°C (non-operational)
5% to 95% non-condensing

Altitude

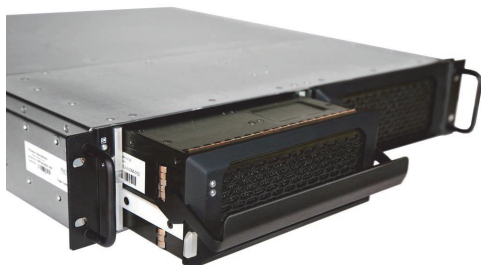
0 to 10,000 ft (operational)
0 to 40,000 ft (non-operational)

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

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 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 VME/VPX solid state (flash) storage modules.



Removable 12 Drive Magazine



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



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