

RPC4

High Performance NVMe NAS/Data Logger



The Phoenix International Systems high performance RPC4 NAS/Data Logger is a rugged, resilient storage array designed for high data through-put, high-capacity tactical edge data capture applications. Configured with four NVMe SSDs, its rapidly removable magazine enables a full magazine to be swapped out for a fresh magazine to store and move data from edge environments quickly and without any tools. The magazines can then be moved to separate locations and plugged into another RPC4 on any other network for further analysis.

As a data logger platform, the Phoenix International RPC4 platforms provide high performance storage that can support up to 9.6 GB/s throughput of sequential write and 12 GB/s sequential read. The systems can be equipped with the latest PCIe Gen4 Network Adapter such as 200Gb or dual 50Gb NIC.

As a NAS, the RPC4 allows networked devices to share and store data using all common network services: NFS (V3/V4), SMB/CIFS, FTP, TFTP, and RSYNC. Network connections are provided through load balanced Ethernet ports, available from Gigabit to 200 Gigabit, and management is via a web-based GUI or CLI.

Phoenix International Systems RPC4 product series rugged design withstands shock and vibration for in-vehicle environment and supports 12V/24V DC or 120V AC power input. Data security is a key component to any storage system and the RPC4 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.

FEATURES

- Reliable, High-Speed Data Capture
- Highly Available and Reliable Architecture
- Quickly Upload Data with Removable Drive Canister
- Up to 120TB NVMe SSD Storage Capacity
- RAID Levels: RAID 0 (Stripe), RAID 1 (Mirror), RAID 5 (Parity), RAID 6 (Dual-Parity)
- One GbE and two copper 10GbE networks ports standard. Copper and optical interfaces up to 200GbE available
- TCG Compliant and FIPS 140-2 Validated Encryption
- Secure Erase/Data Elimination
- Enclosed and Electrically Isolated Drive Magazines
- Operational Temperature 10° to 60°C
- All Steel Construction
- Made in USA



RPC4 RUGGED NVMe NAS/DATA LOGGER

TECHNICAL SPECIFICATIONS

NETWORK INTERFACE

- One 1Gb Ethernet (Management)
- Two 10Gb Ethernet
- One spare slot for Quad port M12 NIC, 200Gb or dual-50Gb Ethernet

SUPPORTED SSD INTERFACE

- PCIe 4.0, NVMe 1.4

MECHANICAL SPECIFICATIONS

- Width: 11.8"
- Height: 3.43"
- Depth: 10.2"
- Weight: 15 lbs. (System w/ magazine loaded with drives)

ELECTRICAL SPECIFICATIONS

Input, DC variant:

- Line voltage: 12V (22A) or 24V (11A)
(DC input Molex 6-pin)

Input, AC variant:

- Optional 280W AC/DC Power Adapter
- Line voltage: 85-2264VAC
- Line Frequency: 47-63Hz

ENVIRONMENTAL SPECIFICATIONS

Temperature:

- 10 C to 60 C Operating
- -40 C to 85 C Non-operating

Humidity:

- 10% to 95% Non-condensing

IO INTERFACE

- SATA: 5 SATA3 (6Gbps) port(s)
(1 header, 4 via Oculink)
- USB: 2 USB 2 port(s) (2 via header)
4 USB 3.2 Gen2 port(s) (4 rear type A)
2 USB 3.2 Gen1 port(s) (2 via header)
- Video Output: 1 HDMI 2.0b port(s)
2 DP (DisplayPort) port(s)
1 HDMI port(s)
1 LVDS port(s) Serial Port
1 COM Port(s) (1 header)
- TPM: TPM Header & Chip both

SUPPORTED CPUs

- Embedded 13th/12th Generation Intel® i9/i7/i5/i3/Pentium/Celeron Processor
- Single Socket LGA-1700 supported
- CPU supports Up to 65W TDP
- Up to 24 cores

SUPPORTED RAM

- 4GB, 8GB, 16GB, 32GB
- Up to 64GB Unbuffered non-ECC SODIMM, DDR4-3200MHz, in 2 SODIMM slots
3200/2933/2666 MT/s non-ECC DDR4 SODIMM Unbuffered



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 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 VPX solid state (flash) storage modules.



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

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