

RocketRAID 1742

2 Internal SATA and 2 External eSATA PCI SATA II RAID Controller

- PCI 32bit@33/66 Mhz
- 2 Internal SATA and 2 External eSATA II ports
- Up to 4 SATA II or SATA I Hard Drives
- Support RAID 0, 1, 5, 10, and JBOD
- Backward compatible to RocketRAID 1640 RAID arrays
- Native Command Queuing (NCQ)
- Online Capacity Expansion (OCE) and Online RAID Level Migration (ORLM)
- Staggered drive spin up
- Hard Disk (Activity / Failed) LED chassis function
- SAF-TE Enclosure Management Functions
- BIOS Booting (INT13) to RAID array
- Quick and Background initialization for instant RAID access
- Write through and write back cache for RAID arrays
- Hot swap and hot spare
- Online array roaming
- Automatic detect drive to rebuild degraded RAID
- S.M.A.R.T array monitoring for hard drive status and reliability
- 64bit LBA for RAID arrays greater than 2TB
- Web browser-base software (Web GUI)
- Command Line Interface (CLI)
- SMTP email notification for events and error reporting
- Remote array management through (Web GUI, RAID GUI and CLI)
- Support Windows (XP, 2000, Server 2003 and Vista), Linux and FreeBSD
- RoHS Compliant

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Peak Speeds (USB, Firewire and SATA)

Many existing external hard drives use USB and/or 1394. These interfaces are not nearly as fast as SATA when compared using peak values, and can compromise drive performance.

External SATA (eSATA) Features and Benefits

Initially SATA was designed as an internal or inside-the-box interface technology, bringing improved performance and new features to internal PC or consumer storage. Creative designers quickly realized the innovative interface could reliably be expanded outside the PC, bringing the same performance and features to external storage needs instead of relying on USB or 1394 interfaces.

Called external SATA or eSATA, customers can now utilize shielded cable lengths up to 2 meters outside the PC to take advantage of the benefits the SATA interface brings to storage. SATA is now out of the box as an external standard, with specifically defined cables, connectors, and signal requirements released as new standards in mid-2004. eSATA provides more performance than existing solutions and is hot pluggable.

- * Key benefits of eSATA: Up to 6 times faster than existing external storage solutions: USB 2.0, & 1394
- * Robust and user friendly external connection
- * High performance, cost effective expansion storage
- * Up to 2 meter shielded cables and connectors

COMPREHENSIVE OS SUPPORT

HighPoint offers the broadest range of support for all major operating systems to ensure OS and hardware server compatibility. Drivers are available for all major operating systems, including Windows, Linux and FreeBSD.

PHYSICAL SPECIFICATIONS

Size: 6.007"L x 2.531"W (152.6mm x 64.3mm)

EMI : FCC Part 15 Class B and CE

Thermal and Atmospheric Characteristics:

Work Temperature Range : +5°C ~+ 40°C

Relative Humidity Range : 20% ~ 80% non condensing

Storage Temperature : ~-40°C~ 60°C

MTBF: 920,585 Hours

Electrical Characteristics:

PCI+3.3V : 0.9A

Power : 3W

RocketRAID 1742 Specification

Host Side Interface	PCI 32bit@33/66Mhz
Device Interface	Serial ATA I or II
Number of Channels	2 Internal SATA / 2 External eSATA
Supported RAID Levels	RAID 0, 1, 5, 10, and JBOD
Operating Systems Support	Windows, Linux and FreeBSD
RAID Management Tool	BIOS Web based RAID Management Software and CLI
Some Highlighted Features	Hot swap/hot spare 64bit LBA for over 2TB partition support Drive Activity/Failed LED support SMTP support for email notification OCE/ORLM Automatic RAID Rebuild Online Array Roaming

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