

Intel® Server RAID Controller U3-1 (SRCU31)

Specifically Designed and Tested for Intel® Server Boards and Platforms⁽¹⁾



Data-intensive Internet and e-Commerce applications continue to drive the need for reliable server performance, 24x7 data availability, and scalability. Intel Server RAID makes exceptional data protection and manageability affordable for entry-level and midrange Intel-based servers. Intel's Server RAID Controller U3-1 (SRCU31) provides an outstanding combination of RAID price/performance with a 64-bit PCI connector for enhanced data throughput.

Performance for Data-Intensive Applications

The Intel Server RAID Controller U3-1 is an Ultra160 LVD (Low Voltage Differential) SCSI, single-channel controller that supports a burst data transfer rate of up to 160 Mbytes/second. Designed and validated for Intel server boards and platforms, the SRCU31 controller enables ease of integration and flexible support for RAID levels 0, 1, 5, and 10 for the optimum balance of fault tolerance and data throughput. The high-integration Intel® i960® RN I/O processor supports best-of-class RAID performance.

Designed for '24x7' Data Availability

The SRCU31 controller with Intel Server RAID Storage Console software enables end-users at all experience levels to choose from typical or more advanced RAID features. Examples include online capacity expansion, online drive roaming, and online RAID level migration without rebooting the system. With support for hot-plug drives, global hot spares, and automatic rebuild, data remains available, even in the event of a disk failure. Users can add a new hot-swap hard drive, do a bus scan and have the new disk available for RAID array expansion without interrupting workflow to reboot the system.

Intel Service and Support

Through its authorized dealers, Intel offers additional features to enhance customer satisfaction, including a 3-year limited warranty, next-business-day replacement of in-warranty Intel server building blocks, and optional spares kits to enable same-day service. Support information is available online at <http://support.intel.com/support/motherboards/server>. In addition, Intel provides access to support personnel to assist with technical questions and dedicated Web sites including <http://channel.intel.com/go/serverbuilder>.

Product Brief

- Validated with Intel® server boards and platforms
- Designed for ease of integration
- Outstanding price/performance
- Intel service and support
- 3-year limited warranty

Features

Benefits

Cost-effective Intel® Server RAID with 64-bit PCI interface and support for Ultra-160 SCSI

Reliable protection and outstanding price/performance for data-intensive applications

Designed and validated with Intel server boards

Exceptional reliability and ease of integration

Intel quality, validation, service, and support

Intel's three-year limited warranty, parts replacement, and answers to technical support questions

Seamless online expansion, without rebooting

Scalability, with '24x7' data availability

Additional array and volume creation without rebooting

Enables users to define and use multiple arrays across multiple physical disks

Online RAID level migration

Change RAID configuration while the server remains online

Seamless disk recovery

Real-time detection of a failed disk and fast rebuild with global hot spares, with no rebooting required

Simple BIOS configuration utility

Enables the use of remaining disk space in any array

Browser-based RAID Storage Console for configuration and monitoring

Ease of use and portability across Web-based platforms; supports remote manageability; enables typical and advanced capabilities for all levels of end-users

Intel® i960® RN I/O processor

Best-of-class data throughput and RAID performance

(1) For a list of supported server boards and platforms, see <http://support.intel.com>.

