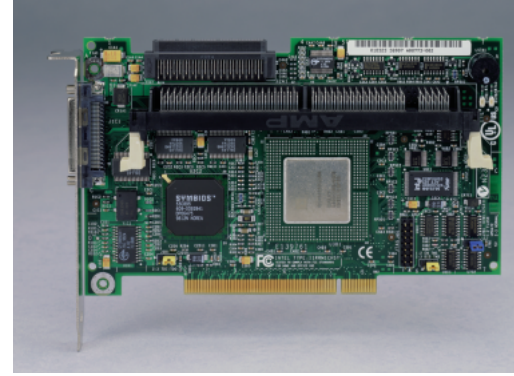


Intel® Server RAID Controller U2-1 (SRCU21)

Specifically Designed and Tested for Intel® L440GX+, C440GX+, SPKA4 and SRKA4 Server Boards & Platforms



Product Brief

- Intelligent RAID validated with Intel server boards
- Ease of integration
- Exceptional price/performance
- Service and support

With the growth of the Internet and e-Commerce, businesses of all sizes demand the 24x7 data availability, fault tolerance and scalability only available from an Intelligent RAID solution. The barrier has traditionally been cost. The Intel Server RAID Controller U2-1 (SRCU21) provides a validated, easy to integrate solution whose exceptional price/performance brings the cost of Intelligent RAID into line with entry-level and mid-range Intel-based servers.

Intelligent RAID: Flexible and Cost-Effective. The Intel Server RAID Controller U2-1 is an Ultra-2 SCSI, single-channel controller that supports RAID levels, 0, 1, 5, and 10, enabling system integrators and users to select the optimal balance of fault tolerance and performance. By offloading RAID interrupts and parity calculations to an on-board dedicated Intel i960® RM Intelligent I/O processor, the controller provides data protection, while helping to optimize server CPU performance.

No-Compromise Data Availability for Critical Applications. For the highest data availability, the Intel Server RAID Controller U2-1 (SRCU21) provides advanced RAID features previously found only in high-end RAID controllers at a cost-effective new price point. These features include online capacity expansion, online drive roaming and online RAID level migration—all without rebooting or powering-down the system. To provide uninterrupted data access, the controller also supports hot-plug drives, hot spares and automatic rebuild capability. Users can hot-plug a new disk, perform a bus scan and have the new disk available for an array expansion while their system stays up and running.

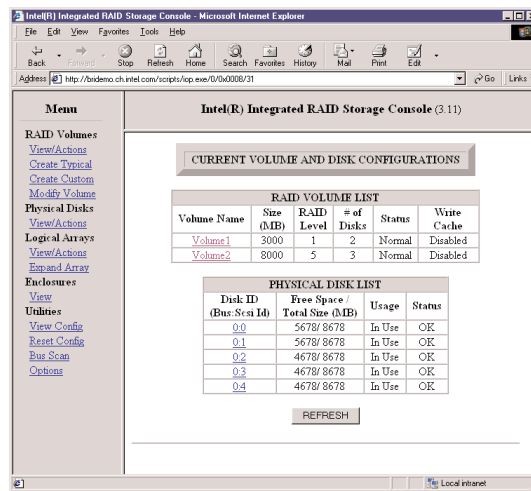
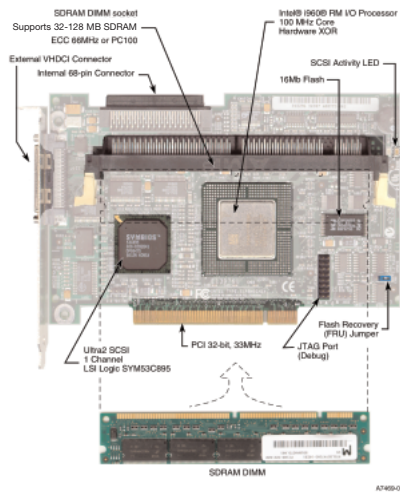
Intel Service and Support. Intel offers a 3 year limited warranty, next business day replacement of parts on Intel server building blocks, a dedicated "Server Builder" Web site and access to support personnel for assistance with technical questions.

Features

Benefits

Designed and validated with Intel server boards	High reliability and simple integration
Exceptional price/performance	Advanced RAID for entry-level servers
Intel quality, validation, service and support	Three-year limited warranty, parts replacement, and answers to technical questions
Seamless online expansion without rebooting	Scalability with "24x7" data availability
Additional array and volume creation without rebooting	Users can define and use multiple, arrays across multiple physical disks
Online RAID level migration	Change RAID level or stripe size while the server remains online
Seamless disk recovery	Real-time detection of a failed disk and fast rebuild, with global hot spares; no rebooting required
Simple BIOS configuration utility	Permits the use of the remaining disk space in any array
Browser-based storage console software	Browser-based RAID configuration and management console is easy to use and portable to Web-enabled platforms without retraining
Intel® i960® RM Intelligent I/O processor	Best of class data throughput and RAID performance





Raid Storage Console

Intel® Server RAID Controller U2-1 Specifications

Intel Integrated RAID Software

- RAID levels 0, 1, 5, and 10
- Supports up to 15 disk drives
- I₂O 1.5 Core implementation
- Instant availability, background initialization
- Automatic rebuild with global hot spares
- Variable stripe size per volume
- Selectable boot volume
- Array expansion and roaming
- ECC detection/correction
- Full and sequential write back caching selectable per volume
- SAF-TE enclosure support

RAID Storage Manager

- Easy RAID configuration and monitoring
- Typical and advanced capabilities for all levels of end-users
- HTML-based for portability
- Remotely manageable

RAID Configuration Utility

- PCI expansion ROM
- Full boot support

Operating Support

- Microsoft® Windows NT Server 4.0
- Microsoft® Windows NT Server 4.0 - Terminal Server Edition
- Microsoft® Windows NT Server 4.0 - Enterprise Edition
- Microsoft BackOffice® Server 4.5
- Microsoft BackOffice® Small Business Server 4.5
- Novell Netware® 4.2 and 5.0
- SCO Unixware® 7.1

Adapter Specifications

- PCI 2.2 32-bit PCI adapter
- Internal 68-bin high density SCSI connector Single connector
- External VHDCI SCSI connector Single connector

Physical and Environmental Specifications: General:

Item	Intel Server RAID Controller U2-1
■ PCI Card	3/4 length
■ Form Factor	Length 6.75" Height 4"
■ PCI Voltages	5V

Absolute Maximum Rating:

Item	Absolute Maximum Ratings
■ Operating Temperature	0°C to +55°C *
■ Storage Temperature	-40°C to +70°C
■ Humidity	Operating 90% relative humidity Storage 90% relative humidity
■ Voltage on any signal with respect to ground	-0.3V to VDD + 0.3V
■ 3.3V Supply Voltage with respect to ground	-0.3 to +3.63V
■ 5V Supply Voltage with respect to ground	-0.3 to +5.5V
■ 12V Supply Voltage with respect to ground	-0.3 to +12.6V

Product Ordering Codes

Intel order code: **BOXSRCU21 (channel)**
 SRCU21 (oem)

For the most current product information on all of Intel's server building blocks, visit Intel's Web site at:

www.intel.com/go/serverbuilder

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