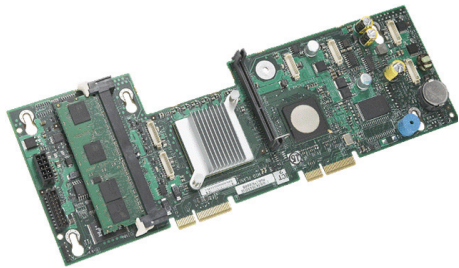


Intel® Integrated Server RAID Technology

Intelligent RAID Protection Tested for Unmatched Performance



Intel RAID mid-plane for 1U/2U systems



Intel RAID I/O module

Intel® Integrated Server RAID Technology refers to Intel's integration of advanced RAID technology into unique system boards to offer value above a standard add-in card. Intel® Integrated server RAID offers flexibility with entry-level RAID that can be upgraded to fully intelligent RAID protection for SAS and SATA hard disk drives. It is capable of providing mission critical fault tolerance for hard drives with options for all key RAID levels including 0/1/5/6/10/50/60.

Intel® Integrated Server RAID Technology is the perfect solution for systems builders looking to optimize RAID without sacrificing a valuable riser-card slot or using a chassis with low-profile add-in card cut-outs for 1U and 2 servers.

Why Intel® Integrated RAID Technology?

- Offers value above standard add in cards particularly for 1U and 2U systems in which it eliminates the need for a riser card or low profile chassis cutout.
- RAID activation key enables flexibility for upgrading to advanced features.
- Optional Intel Smart Battery for modules with embedded or add-in cache.
- Includes Intel RAID Web Console II software plus unique utilities to assist system builders and end users.

Why Intel® RAID Solutions

- Industry leading performance, and simplified data protection across all RAID levels.
- Reduces total cost of ownership by shopping Intel for servers *and* controllers.
- Validated using more than 10 times the testing of most other RAID cards tested by Intel.
- Single Web-based RAID software stack to support all products.
- Easy to deploy, and seamless upgrades available.

Smart Initialization	Automatically checks consistency of virtual drives for RAID 5.
Online capacity expansion (OCE)	Adds capacity to the virtual drive, and depends upon the capability of the operating system.
Online RAID Level Migration	Upgrade from RAID 1 to RAID 0, Online RAID level migration RAID 5 to RAID 0. With OCE, options are to go from RAID 0 to RAID 1, RAID 0 to RAID 5, and from RAID 1 to RAID 5.
Drive Fault Tolerance	Yes
Hard Reset/Power Loss Tolerance	Yes
Event Log Detail	Yes
RAID Levels	0/1/5/6/10/50/60 with activation key.
Drive Support	Supports up to eight physical drives, and 128 virtual drives.
Auto Re-build Support	Yes
Strip Size	User definable on a per drive basis and can be 8, 16, 32, 64, or 128 KB in size. The default is 64 KB.
Hot Spare Support	Includes global hot spare support that automatically comes online to replace the first drive to fail on any array or disk group on the controller. Dedicated hot spare is assigned to a specific array or disk group and comes online to rebuild this specific failed array or disk group.
Battery Backup Optional	Protects cached data by providing power to the module in the event of server or power failure.

Other Features May Include:

- Solid State Drive Support
- SSD Guard*
- Dimmer Switch*
- VMware* ESXi Virtualization Support
- UEFI 2.0 Support for new Intel platforms
- Broad selection of qualified Operating Systems ranging from Red Hat Linux to Solaris* X86 to FreeBSD

Most products built using Intel Integrated Server RAID Technology the features above.

For more information on Intel® RAID Controllers, visit www.intel.com/go/RAID

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