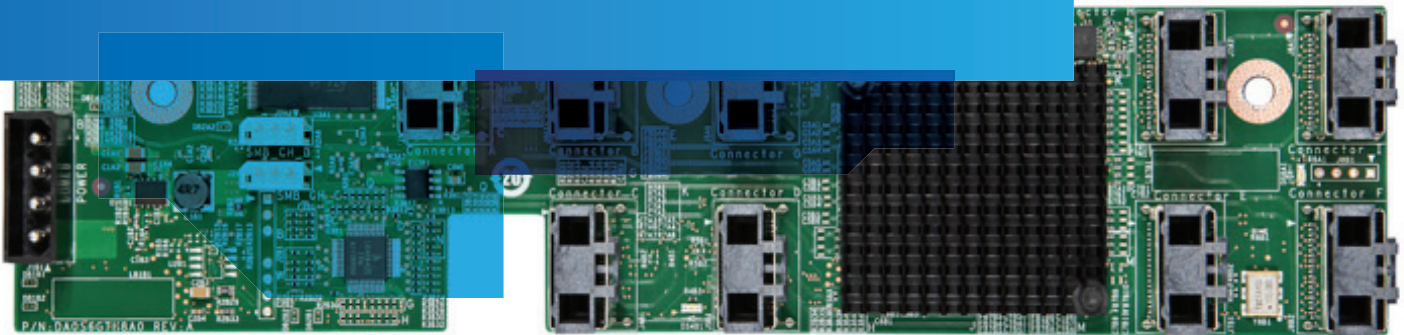


Intel® RAID Expander RES2CV360/240

Narrow 36 or 24 port expander board for systems with more than eight drives



Product Overview:

For a low-cost, value-added alternative to high port count RAID cards, select the Intel® RAID Expander RES2CV360/240 to achieve excellent performance and higher returns on investment. As the perfect complement for Intel's SAS-2 generation RAID cards, the RES2CV360/240 offers ultimate flexibility for architecting a high drive count (>8 drive) storage solution in any sized system. The card has a designated mounting spot in Intel's new R2xxx series 2U chassis (when using 2.5" drives) and can be mounted to a chassis wall or air-duct in other chassis.

The RES2CV360/240, powered by an LSI* SAS2x36/24 36 or 24-port SAS-2 expander, enables the connection of up to 32 or 20 directly attached SAS or Serial ATA (SATA) devices, and provides table routing to support connections for up to 1024 SAS addresses. Each expander phy is individually configurable and performs SAS and SATA transfers based on the speed of the host or target at either 6.0Gb/s, 3.0Gb/s or 1.5Gb/s. The RES2CV360/240 supports management functions such as discovery and enclosure management, and can be cascaded to accommodate as many drives as the associated SAS/RAID card allows.

All Intel RAID solutions are validated across multiple platforms with Intel® boards, chassis and systems. Customized training, as well as Intel service and support, make Intel the one source for customers seeking data protection, increased productivity and simplified IT.

Key Advantages:

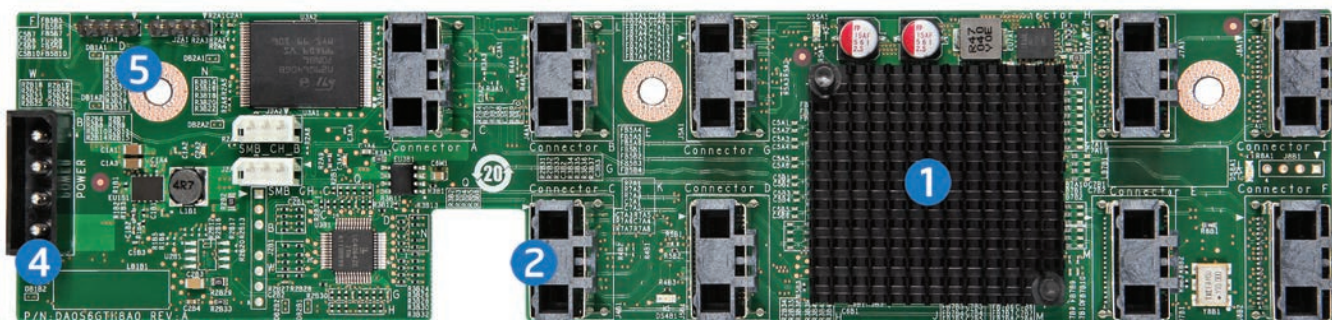
- **Low-cost alternative to high port count RAID cards.** Provides a more economical solution when compared to an alternative solution with a high port count card. Plus, it offers greater flexibility since the RES2CV360/240 can be teamed with a wide variety four or eight port SAS RAID card/modules to deliver features that are best suited to a customer's needs.
- **Inside-the-box design flexibility.** With a narrow form factor design, the card can be mounted on a chassis wall or ducting. Power is obtained by using a power cable with a standard 4-pin power connector.
- **Excellent performance.** Overall solution performance using a RES2CV360/240 is on par with Intel's SAS-2 high port count RAID with transfer rates of up to 6Gb/s per port. While today's high port count RAID cards typically include an expander on the card, a RES2CV360/240-based solution separates the expander from the RAID card for high performance with more system design flexibility.
- **Compatible with SAS-2 RAID products.** Connect any of Intel's current SAS-2 RAID products including the Intel® Integrated RAID Module RMSCB080 for full hardware RAID functionality.
- **Exceptional quality and support.** Thoroughly tested across Intel's SAS-2 RAID product line to ensure ease of deployment and backed by a three year warranty. (Extended five year warranty also available.)

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Powered by LSI* MegaRAID* Technology

Features:

- 1 LSI* LSISAS2x36/24 SAS/SATA Expander to enable communication with 36 or 24-ports at 3 or 6Gb/s
- 2 Nine or Six SFF8087 SAS/SATA connectors for attaching up to 36 targets or initiators
- 3 Narrow width for mounting on chassis floor, wall or duct
- 4 RA 4 Pin power connector to power from a standard power cable
- 5 Mounting holes for attaching to a chassis or duct wall (if desired)
- 6 Includes up to six SAS cables with SFF8087 connectors at each end and tight bend radii are included for ease of procurement and integration simplicity (cables are not shown)



Technical Specifications:

Order Code	RES2CV360 (36 ports) RES2CV240 (24 ports)
Embedded processor	LSI* LSISAS2x36/24 36-Port Serial Attached SCSI/SATA Expander chip
Compatibility	Intel® RAID Controllers (SAS-2) Intel® Integrated RAID Modules (SAS-2) RAID or non-RAID mode 2.5-inch and 3.5-inch SAS 2.0 or SATA drives Drives of mixed capacity Non disk devices including expanders
SAS/SATA Ports	36 or 24 total sub-divided into quad ports via 8087 (Mini-SAS) connectors
Firmware	8 MB in an updateable flash ROM
Enclosure Management	SGPIO
Operating Temperature	Maximum ambient: 50°C
Operating Voltage	+3.3 V
Dimensions	8 3/8" W x 2 1/16" D x 7/8" H (to the top of the 8087 connectors)
Cables Included	The 36 port model includes six cables with 8087 (Mini-SAS) to 8087 (Mini-SAS) connectors (short lengths optimized for use in Intel's 2U chassis or in close proximity to the drives in any chassis). The 24 port model includes four cables.

For more information on how to make Intel® RAID products part of a successful storage solution, visit: www.intel.com/go/RAID



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