

*Compatibility Report for:*

- *Adaptec HBA 1100*
- *Adaptec SmartHBA 2100*
- *Adaptec SmartRAID 3100*

This Compatibility Report reflects testing performed by Microchip to test the interoperability of the products listed. It does not attempt to validate the quality of or preference for any of the listed products. It is also not an inclusive list and reflects a representative sample of products in each of the categories listed. All testing was done by the Microchip Product Verification Group and the InterOperability Test Lab.

Minimum testing for listed drive enclosures consists of recognition on each controller model and 24 hours of data integrity I/O stress load. For enclosures that have a FW Revision associated with them, indicating an intelligent backplane, Activity and Fault LEDs on the enclosure are also tested.

Minimum testing for listed hard disk drives (HDDs) and solid state drives (SSDs) includes direct-attached recognition on each controller model subjected to data integrity I/O stress load. When selecting a hard drive or SSD, be aware that other factors not taken into account during this testing may impact successful operation. Just a few examples of such are, the use of an enclosure/backplane, not following the drive vendor's usage guidelines, or not providing adequate environmental support. Our compatibility reports are intended to be used as a guideline for compatibility, but it's important to factor in all requirements for your particular configuration prior to selecting a hard drive to fit your needs.

Minimum testing for listed host systems and motherboards consists of single and multiple controller recognition, controller BIOS interaction with host, and operating system bootability from each controller from every compatible PCIExpress slot. Systems that are capable of supporting more than 4 GB and more than 8 GB of memory are also tested in operating system environments that support such a configuration. Please note that some systems or motherboards may be listed multiple times if different system BIOS or CPU configurations were used.

**Note:**

If you encounter problems with a certain system or device, check the manufacturer for the latest BIOS or microcode. Go to the Adaptec web site frequently for the latest updated list at [www.microsemi.com/products/storage/compatibility](http://www.microsemi.com/products/storage/compatibility)

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Microchip is committed to providing customers with a stable product that offers both, high performance and high reliability. Specific backplane features/functions are dependent on proper cabling and controller settings. In some cases, some functionality may be reduced due to specific configuration limitations.

**Adaptec Host Bus Adapters** Our Adaptec Host Bus Adapters are the ideal connectivity solution for server-based storage systems that require maximum bandwidth and I/O connectivity, low power consumption and high reliability. With the highest port count available, our HBAs deliver the lowest latency and highest performance when connected to SSDs. Without the need for expanders (in most rack server applications), our design approach delivers a cost-efficient path for those requiring the highest levels of storage performance and scalability in next-generation data centers. In addition, Adaptec cables were selected for the project as they are configured with mini-SAS HD connectors to allow for maximum performance and connectivity in a MD2 low-profile form factor.

Our PCIe Gen 3 12G SAS/SATA RAID adapters and HBAs are ideal for maximum 12G read/write bandwidth with significant power savings.

Backplane feature support may be limited to the backplane capabilities. In some configurations, the controller backplane mode must be set manually using the controller configuration utility. Management utilities will adapt/change according to system settings.

Please contact the listed vendor for more information concerning system specifications and recommended Adaptec controller for desired connectivity. Please use the following links for more information concerning Adaptec Storage Adapters.

[RAID adapters](#)

[SmartHBA and HBAs](#)

## System Solutions

Vendor	Type*	Vendor Part Number	Description
Thomas-Krenn	Solution	2HE AMD Single-CPU RA1208-SMEP (V 1.0)	AMD Milan, 8x SAS/SATA
Thomas-Krenn	Solution	2HE AMD Single-CPU RA1208-AIEPN (V 1.0)	AMD Milan, 8x SAS/SATA or 4x NVMe + 4x SAS/SATA
Thomas-Krenn	Solution	2HE AMD Single-CPU RA1212-AIEPN (V 1.0)	AMD Milan, 12x SAS/SATA or 4x NVMe + 8x SAS/SATA

