



ServeRAID B5015 SSD Controller is an enterprise-grade RAID adapter offering the highest performance and data protection optimized for next-generation SSDs

Table of contents

1 Overview	2 Publications
2 Key prerequisites	3 Technical information
2 Planned availability date	6 Terms and conditions
2 Description	6 Pricing
2 Product number	6 Announcement countries

At a glance

The ServeRAID™ B5015 SSD Controller (46M0969) provides the ideal solution to realize higher levels of performance in storage solutions utilizing solid state disks (SSDs). This controller provides support for SSDs and the highest levels of data protection with RAID capabilities.

- Multi-threading and contention-free architecture provide highest levels of performance necessary to connect SSD-based storage.
- RAID capabilities ensure data is protected and is always available.
- Hot spare support ensures an immediate rebuild and protection of data in the case of a drive failure.
- Easy-to-use management allows users to easily create and manage arrays, as well as monitor the status of all logical and physical devices.
- A smaller adapter footprint enables SSD optimization in the smallest of server solutions.

Overview

ServeRAID B5015 SSD Controller (46M0969)

Today's business-critical servers require more protection, performance, and manageability than ever. An enterprise-grade RAID solution needs to provide the greatest level of data protection, the highest performance, and easy-to-use management tools. The ServeRAID B5015 SSD Controller combines the PM8013 maxSAS RAID-on-Chip (RoC) controller and the RAID stack from PMC Sierra to accommodate the most rigorous server environments and support high-performing SSDs.

Features and functions:

- RAID 1 and 5 support
- 6 Gbps per SAS port
- x8 PCI Express®, Gen 2 (5 Gb/s)
- PCI MD2 low profile form factor
- Two x4 internal connectors
- Up to eight disk drives per RAID adapter

- Performance optimized for SSDs
- Three multi-threading MIPS processing cores
- High-performance contention-free architecture
- Ability to create up to 32 arrays/logical volumes

Warranty

The ServeRAID B5015 SSD Controller offers a one-year limited warranty¹.

¹ For information on IBM's Statement of Limited Warranty, contact your local IBM® representative. Copies are available upon request.

Key prerequisites

This SSD controller can be used on supported System x® servers with an available PCI Express expansion slot.

Planned availability date

June 1, 2010

Description

This controller is ideal for supporting server applications where high levels of sustained read and write operations are required.

Features:

- Investment protection
- Ease of use
- Compatibility
 - Support for popular network operating systems
 - ServerProven® testing, which verifies servers, SSDs, and the controller will function properly

Product number

Description	Part number
ServerRAID B5015 SSD Controller	46M0969

Publications

Publications are shipped with the announced product.

The IBM Systems Information Center provides you with a single information center where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access. The IBM Systems Information Center is at

<http://publib14.boulder.ibm.com/infocenter/systems>

IBM Publications Center Portal

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided, as well as payment options via credit card. A large number of publications are available online in various file formats, which can currently be downloaded free of charge.

RAID installation pubs ship with the controller.

Displayable softcopy publications

None

Source file publications

None

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

<http://www.ibm.com/services/>

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For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

Technical information

Specified operating environment

Physical specifications

- Approximate height: 64.5 mm (2.54 in)
- Approximate width: 12.7 mm (0.5 in)
- Approximate depth: 168 mm (6.6 in)
- Approximate weight: 9.1 g (0.1 lb)

Shipping dimensions

- Approximate height: 143 mm (5.63 in)

- Approximate width: 51 mm (2.0 in)
- Approximate depth: 238 mm (9.37 in)
- Approximate weight: 22.2 g (0.5 lb)

Standards

None

Operating environment

- Temperature: 5 to 53 degrees C (41 to 127 degrees F) at 0 to 3050 m (0 to 10,000 ft)
- Relative humidity: 8% to 90% (noncondensing)
- Maximum altitude: 3,050 m (10,000 ft)

Hardware requirements

The controller must be installed in a selected System x server, x3550 M2, x3550 M3, x3650 M2, x3650 M3, x3690 X5, or x3850 X5 system.

Software requirements

The ServeRAID B5015 supports the following major operating systems:

- Microsoft® Windows® 2008 x64
- Microsoft Windows 2008 R2 x64
- Red Hat Enterprise Linux® 5 x64
- SUSE Linux Enterprise Server 10 x64
- SUSE Linux Enterprise Server 11 x64

Compatibility

For latest compatibility information, visit

<http://www.ibm.com/servers/eserver/serverproven/compat/us/>

Note: Some configurations may not be compatible.

Limitations

None

User group requirements

This announcement satisfies or partially satisfies the requirements from one or more of the worldwide user group communities. Groups include COMMON, COMMON Europe, Guide Share Europe (GSE), InterAction (Australia/New Zealand), Japan Guide Share (JGS), and SHARE Inc.

Planning information

Customer responsibilities

The ServeRAID B5015 product is designated as customer setup. Customer installation instructions are shipped with the option part.

Cable orders

None

Installability

The ServeRAID B5015 SSD Controller requires about 20 minutes for installation.

Installation includes unpacking, setting up, and powering on.

Packaging

Product	Package description	Boxes
ServerRAID B5015 SSD Controller	Option Unit Box	1

Contents:

ServerRAID B5015 adapter
2U bracket
Quick install guide
CD with pub
Important Notices Flyer

The ServerRAID B5015 SSD Controller is shipped as a single package. Other items are in zipped bags. **Retail only.**

Packaging dimensions and weight

- Single box (HxDxW): 143 mm (5.63 in) x 238 mm (9.37 in) x 51 mm (2.0 in)
- Package weight: 22.2 g (0.5 lb)

Note: All measurements are approximate.

Supplies

For end users

The IBM ServerRAID B5015 SSD Controller can be purchased through dealers around the world.

Security, auditability, and control

It is a customer's responsibility to ensure that the server is secure to prevent sensitive data from being removed.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support.

The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

Terms and conditions

Field installable features

Yes

Warranty period

One year.

The ServeRAID B5015 Controller offers a one-year limited warranty¹.

- Warranty period: 1 year
- Service type (IOR/IOE/CCE/CCR): CRU
- Maintenance agreement: No
- Optional upgrade: No

This feature assumes the same warranty or maintenance terms as the machine in which it is installed for the remainder of the warranty or maintenance period for such machine.

Customer setup

Yes

Machine code

No license terms apply.

Pricing

For all local charges, contact your IBM representative.

Announcement countries

All European, Middle Eastern, and African countries.

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