SUMA 3016 Series

2Gb/s Fibre-to-SATA RAID Subsystem
SCSI-to-SATA RAID Subsystem

User's Manual

Revision: 1.1A

EonStor A16F/A16U Series

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Warnings and Certifications

FCC (applies in the U.S. and Canada)

This device complies with Part 15 of FCC Rules. Operation of this device is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

Warning:

Use only shielded cables to connect I/O devices to this equipment.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

CE This device is in conformity with the EMC

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Safety Precautions

Precautions and instructions

- Prior to powering on the subsystem, ensure that the correct power range is being used.
- The Suma subsystem comes with 16 drive bays (slots). Leaving any of these slots empty will greatly affect the efficiency of the airflow within the enclosure, and will consequently lead to the system overheating, which can cause irreparable damage.
- If a module fails, leave it in place until you have a replacement unit and you are ready to replace it.
- **Airflow Consideration:** The subsystem requires an airflow clearance especially at the front and at the rear.
- To handle subsystem modules, use the retention screws, eject levers, and the metal frames/face plates. Avoid touching PCB boards or connector pins.
- To comply with safety, emission, or thermal requirements, none of the covers or replaceable modules should be removed. Make sure that during operation, all enclosure modules and covers are securely in place.
- Be sure that the rack cabinet into which the subsystem chassis is to be installed provides sufficient ventilation channels and airflow circulation around the subsystem.
- Provide a soft, clean surface to place your subsystem on before working on it. Servicing on a rough surface may damage the exterior of the chassis.

- If it is necessary to transport the subsystem, repackage all drives and replaceable modules separately.

- Dual redundant controller models come with two controller modules that must be installed into the subsystem. Single controller modules come with a single controller module and a metal sheet is placed over the lower controller bay at the rear of the subsystem. Since single controller modules cannot be upgraded this metal sheet should NEVER be removed.

ESD Precautions:

Observe all conventional anti-ESD methods while handling system modules. The use of grounded wrist-strap and an anti-static work pad are recommended. Avoid dust or debris in your work area.

About This Manual:

This manual

- introduces the the Suma RAID Subsystem series.

- describes all the active components in the system.

- provides recommendations and details about the hardware installation process of the subsystem.

- briefly describes how to monitor the subsystem.

- describes how to maintain the subsystem.

This manual does not

- describe components that are not user-serviceable.

- describe the configuration options of firmware, using terminal emulation programs or the RAIDWatch GUI that came with your subsystem.
- give a detailed description of the RAID processing units, the RAID controllers embedded within the subsystem.

Who should read this manual?

This manual assumes that its readers are experienced with computer hardware installation and are familiar with storage enclosures.

Related Documentation

- Generic Operation Manual
- RAIDWatch User's Manual

Conventions

Naming

From this point on and throughout the rest of this manual the Suma Model Name is referred to as simply the "subsystem" or the "system" and EonStor is a series is frequently abbreviated as ES.

Warnings

Warnings appear where overlooked details may cause damage to the equipment or result in personal injury. Warnings should be taken seriously. Warnings are easy to recognize. The word "warning" is written as "**WARNING**", both capitalized and bold and is followed by text in italics. The italicized text is the warning message.

Cautions

Cautionary messages should also be heeded for the messages can help you reduce the chance of losing data or damaging the system. Cautions are easy to recognize. The word “caution” is written as “CAUTION”, both capitalized and bold and is followed by text in italics. The italicized text is the cautionary message.

Notes

These are messages that are used to inform the reader of essential but non-critical information. These messages should be read carefully and any directions or instructions contained herein can help you avoid making mistakes. Notes are easy to recognize. The word “note” is written as “NOTE”, it is both capitalized and bold and is followed by text in italics. The italicized text is the cautionary message.

Lists

Bulleted Lists: - Bulleted lists are statements of non-sequential facts. They can be read in any order. Each statement is preceded by a round black dot “ ▪ ”.

Numbered Lists: - Numbered lists are used to describe sequential steps a user should follow in order.

Software and Firmware Updates

Please contact your system vendor or visit Polywell’s FTP site for the latest software or firmware updates. ***NOTE*** that the firmware version installed on your system should provide the complete functionality listed in the specification sheet/user’s manual. We provide special revisions for various application purposes. Therefore, DO NOT upgrade your firmware unless you fully understand what a firmware revision will do.

Problems that occur during the updating process may cause unrecoverable errors and system down time. Always consult technical personnel before proceeding with any firmware upgrade.