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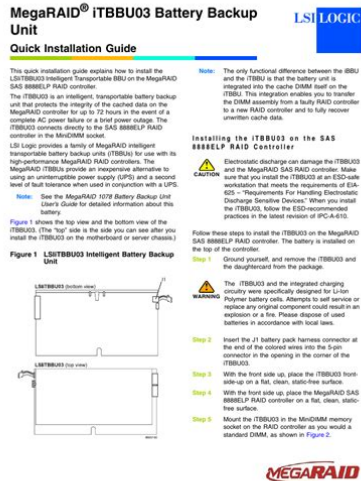
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Book Descriptions:

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The iTBBU03 connects directly to the SAS 8888ELP RAID controller in the MiniDIMM socket. The MegaRAID iTBBUs provide an inexpensive alternative to using an uninterruptible power supply UPS and a second level of fault tolerance when used in conjunction with a UPS. This integration enables you to transfer the DIMM assembly from a faulty RAID controller to a new RAID controller and to fully recover unwritten cache data. The battery is installed on the top of the controller. Attempts to self service or replace any original component could result in an explosion or a fire. Please dispose of used batteries in accordance with local laws. The MegaRAID SAS 8888ELP RAID controller supports eight ports. If you need more information about any topic covered in this guide, refer to the documents on your MegaRAID Universal Software Suite CD. The battery backup unit has to be secured in the system and connected to the back of the RAID controller with a 20pin cable. For more information about this battery, refer to the Intelligent Battery Backup Units for 1078based MegaRAID Products User's Guide on the MegaRAID Universal Software Suite CD. Remove it from the antistatic bag and inspect it for damage. Remove the cover from the computer. The jumpers are set at the factory, and you usually do not need to change them. Otherwise, you might lose data. Procedures are included for connecting SAS hard drives mounted in hard drive bays and optical drive bays to the Redundant Array of Independent Drives RAID controller card. <http://corponeindia.com/corp-one/upload/campbell-hausfeld-manual-hose-reel.xml>

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Kit contents SAS RAID controller card MiniSAS 4i to 4X SATA internal adapter cable short 4Port data cable with 90degree connectors long 4Port data cable with straight connectors long CD with software drivers and manufacturers documentation Hard drive activity LED cable Installation instructions this document Warranty information Before you begin To view QuickSpecs and determine the compatibility of this product with your HP workstation, see HewlettPackard Development Company, L.P. MegaRAID is a registered trademark of LSI Corporation. Printed in the U.S. ENWW Introduction 1 Any surface or area of the equipment marked with this symbol indicates the presence of an electrical shock hazard. To reduce the risk of injury from electrical shock, do not open any enclosed area marked with this symbol. WARNING! To reduce the risk of electric shock or damage to your equipment Do not disable the power cord grounding plug. The grounding plug is an important safety feature. Plug the power cord in a grounded earthed outlet that is easily accessible at all times. Disconnect power from the equipment by unplugging the power cord from the electrical outlet. WARNING! Any surface or area of the equipment marked with this symbol indicates the presence of a hot surface or hot component. If this surface is contacted, the potential for injury exists. To reduce the risk of injury from a hot component, enable the surface to cool before touching. WARNING! If a product is shipped in packaging marked with this symbol,, the product must always be lifted by two persons to avoid personal injury due to product weight. It describes proper workstation setup, posture, health, and work habits for computer users, and provides important electrical and mechanical safety information. This guide is located at and on the documentation CD if one is included with the product. CAUTION Static electricity can damage the electronic components of the workstation. <http://www.hotpod.net.au/userfiles/campbell-hausfeld-dh7800-manual.xml>

Before beginning these procedures, be sure you discharge static electricity by briefly touching a grounded metal object. CAUTION To prevent damage to the workstation, observe the following Electrostatic Discharge ESD precautions while performing the system parts removal and

replacement procedures Work on a staticfree mat. Wear a static strap to ensure that any accumulated electrostatic charge is discharged from your body to the ground. Create a common ground for the equipment you are working on by connecting the staticfree mat, static strap, and peripheral units to that piece of equipment. NOTE HP accessories are for use in HP Workstation products. They have been extensively tested for reliability and are manufactured to high quality standards. 2 LSI MegaRAID SAS 8888ELP Host Bus Adapter installation ENWW All illustrations are examples only. Download and install updates 1. Check for available system BIOS updates specified for your HP workstation model and operating system at 2. Install the system BIOS updates, if available. NOTE For the HP Workstation series, these procedures are also available in the User Guide on the Documentation and Diagnostics CD that shipped with your workstation. 2. Power down the workstation, and then disconnect the power cord. 3. Power down all external devices, and then disconnect them from the workstation. 4. Remove the side access panel. Removing components 1. If present, remove the card support to enable access to the expansion slots and system board connectors. 2. Select an appropriate PCIe expansion slot. For optimum performance, HP recommends installing the card in a PCIe x8 or x16 expansion slot on the system board. The card can be installed in a PCIe x4 expansion slot, but performance is reduced. NOTE panel.

To identify an available PCIe expansion slot, see the service label on the side access Figure 1 Removing the expansion slot cover ENWW Step 1 Preparing for component installation 3 Ensure that the card is fully seated in the expansion slot. 2. Close the expansion slot retention clamp to secure the card in the slot. Figure 2 Installing the SAS RAID controller card 4 LSI MegaRAID SAS 8888ELP Host Bus Adapter installation ENWW The data cable connections for RAID differ between workstation models. To determine the correct connection for your hard drives, identify the applicable HP workstation model and the location of the hard drive being connected in the following table. To connect existing hard drives, disconnect the existing single data cables from the system board, and then choose the correct connection type. The LED cable connection is similar for all HP Workstation models. Table 1 Data cable configuration guide HP workstation model Location of hard drive Connection type Description HP xw Workstations HP 400 Workstations Internal hard drive bay Standard data cable connections on page 9 Use the long 4port data cable with 90degree connectors provided in this kit to connect the hard drives to the RAID controller card. HP xw Workstations HP 400 Workstations Optical bay Standard data cable connections on page 9 Use the long 4port data cable with straight connectors provided in this kit to connect the hard drives to the RAID controller card. HP HP 600 Workstations 800 Workstations Internal hard drive bay Blindmate data cable connections on page 7 The blindmate data cable from the applicable internal hard drive is disconnected from the system board and connected to the appropriate port connector on the short MiniSAS adapter cable. The MiniSAS adapter is then connected to the RAID controller card.

<https://www.interactivelearnings.com/forum/selenium-using-c/topic/13531/3m-breathe-easy-papr-manual>

HP HP 600 Workstations 800 Workstations Optical bay Standard data cable connections on page 9 Use the long 4port data cable with straight connectors provided in this kit to connect the hard drives to the RAID controller card. HP xw Workstations HP Workstations External External Connections on page 11 To connect external hard drives to the RAID controller card, see the user documentation for your preferred device. ENWW Step 3 Configuring the cabling 5 Each internal connector supports up to four SAS hard drives. The number of external hard drives supported by an external connector depends on your preferred external device. One adapter cable either internal or external can be connected to each selectable connector. See Step 6 Configuring RAID devices on page 12 for information about setting and resetting card BIOS defaults. 6 LSI MegaRAID SAS 8888ELP Host Bus Adapter installation ENWW It is not necessary to connect all internal drives or use all four of the connectors on the MiniSAS internal adapter cable. The short MiniSAS 4i4X SATA cable is used only

to connect SAS hard drives located in the internal hard drive bays of HP Workstations. A long MiniSASi data cable is used to connect SAS hard drives located in the optical drive bays. See Standard data cable connections on page 9. For internal SAS hard drives in HP workstations with preinstalled blindmate cabling plugged into the system board, such as HP 600 and HP 800 Workstations 1. Locate and disconnect the HDDBAY0 cable from the system board SAS connectors. Figure 4 Locating the blindmate hard drive cables ENWW Step 3 Configuring the cabling 7 Figure 5 Connecting the hard drive cables to the MiniSAS adapter cable 3. Attach the coupled end of the data cable to Internal connector 1 on the SAS RAID controller card. Figure 6 RAID controller with 4 internal hard drives connected 4.

<https://www.cosma.nl/images/branson-8400-manual.pdf>

If connecting more than four hard drives, attach the second data cable supplied with the controller card kit to Internal connector 2 on the controller card, and continue with Standard data cable connections on page Continue with Connecting the LED activity indicator on page LSI MegaRAID SAS 8888ELP Host Bus Adapter installation ENWW Figure 7 Attaching the SASSATA adapter 2. Select the long 4port data cable that best fits the workstation. Avoid sharp bends in the data cables. To choose a cable, see Table 1 Data cable configuration guide on page 5. For standard cable connections, hard drives located in the internal bays and hard drives located in the optical bays may share a long 4port data cable. To connect a hard drive in the fifth internal bay on HP xw8000 and xw9000 Workstations, use the 4port data cable with straight connectors. ENWW Step 3 Configuring the cabling 9 Figure 8 Data cable connections 4. If connecting more than four hard drives, attach the second data cable supplied with the controller card kit to Internal connector 2 on the controller card. 10 LSI MegaRAID SAS 8888ELP Host Bus Adapter installation ENWW Figure 9 Sample small form factor drive power and data connections 6. Continue with Connecting the LED activity indicator on page 11. External Connections The LSI 8888 ELP controller card has an SFF8088 connector available for external storage. To connect external hard drives to the RAID controller card, see the user documentation for your preferred device. Connecting the LED activity indicator 1. Attach one end of the hard drive activity LED cable to the SAS RAID controller card. 2. Attach the other end of the hard drive activity LED cable to the hard drive LED activity connector on the system board 2. NOTE To locate the hard drive activity LED HDDLED connector on the system board, refer to the service label inside the workstation access panel. Use the LED cable appropriate for the workstation.

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ENWW Step 3 Configuring the cabling 11 Step 5 Loading and setting up driver software For instructions on loading and setting up the SAS drivers for use with your workstation, see the manufacturer s documentation shipped with the 8port SAS RAID controller. At the time of component installation, look for device firmware and driver updates, designated for your workstation model and operating system. You can obtain updates from workstationsupport. Step 6 Configuring RAID devices NOTE Verify the RAID card internal data connectors are enabled. For card setup instructions, see the manufacturers documentation included in this kit. For detailed instruction on configuring RAID devices, see the service guide for the HP workstation model at Additional information is available at 12 LSI MegaRAID SAS 8888ELP Host Bus Adapter installation ENWW This document describes Microsoft, Windows, and Windows The only warranties for HP products and services Upgrading and Servicing Guide HewlettPackard Company makes no warranty of any kind with regard to Installation Instructions Microsoft, Windows, and Windows Nothing herein should be construed User Guide Nothing herein should This guide explains how to replace and upgrade memory in the computer. May 2006 Contents 1 Adding or replacing memory modules Adding or replacing a memory American Megatrends, Inc. 5555 Oakbrook Parkway, Building 200 Class B devices have a Federal Communications This guide describes identification Intel NUC Kit

DC3217IYE User Guide This guide explains how to replace and upgrade memory in the computer. Contents 1 Adding or replacing memory modules Adding a memory module to The products covered by this guide are the NI PCI8361, NI Note Follow these instructions carefully. Failure to do so could damage your equipment and void its warranty.

Tools you need You need a small Phillips screwdriver and The information contained herein is subject This guide provides procedures for installing the kit components, Tools you need You need a small Phillips and a small flatblade HP Compaq 8100 Elite Small Form Factor Business PC and HP Z200 Small Form Factor Workstation Upgrading and Servicing Guide. Printed in Note Follow these instructions carefully. Failure to do so could damage your equipment and The information contained herein A 5382200A Revision History Version and Date 5382200, Rev. A, June, 2012. Initial release of the document. Use the following illustration to locate the connector for the card you want to remove. Hard disk connector 1 Option card connector Firmware Quick Installation Guide Description A, January 2011 Initial release of User Guide Microsoft, Windows, and Windows This document is for the Read all procedures before attempting the field replacement of the EPROM firmware in any equipment. Components are static sensitive and care User Guide Windows and Windows December 2004 Revision A Quick Start Guide NOTES Warning During this procedure, keep small parts away from children. Installation Guide Setup and Troubleshooting Guide Bluetooth is a trademark owned by its proprietor User Guide Products D90D7, D90DW. Issue 121312 PN 88388435L Rev. A A Copyright Notices 2012, Wyse Technology Inc. All rights reserved. This manual and Failure to comply Microsoft and Windows are U.S. registered To use this website, you must agree to our Privacy Policy, including cookie policy. Flexibility best summarizes the features of the SAS 8888ELP. With selectable Users can choose two System builders can attach An investment in the 8888ELP brings piece of mind, This is particularly useful when Check consistency and. Patrol Read, advanced background sentry services that find and fix bad media With an integrated 500MHz PowerPC and industry Amphenol Areca Arena Maxtronic Astek ATTO Tech Bizlink Broadcom Chenbro Micom C.

CiDesign Compaq Crucial CSElectronics Dell Dynapower USA Enhance Technol. Fujitsu Habey USA HewlettPackard Highpoint Hitachi IBM Icy Dock Infortrend Intel iStarUSA iStoragePro Lenovo LSI Logic Mellanox Molex Norco Technolog. Western Digital. Please try again.Please try your search again later.You can edit your question or post anyway.To calculate the overall star rating and percentage breakdown by star, we don't use a simple average. Instead, our system considers things like how recent a review is and if the reviewer bought the item on Amazon. It also analyses reviews to verify trustworthiness. Should you find any errors, please help us by reporting it here.We delete comments that violate our policy, which we encourage you to read. Discussion threads can be closed at any time at our discretion. This document contain s propr ietar y information of LSI Cor poration. The information contained herein is not to be used by or disclosed to third par ties without the express written per mission of an o fficer of LSI Cor poration. LSI products are not i ntended f or use in lifesuppor t appliances, de vices, or systems. Use of any LSI product in such applications without written consent of the approp riate LSI officer is prohibited. Purchase of I 2 C components o f LSI Cor poration, or one of its sublicensed Associated Companies, conv eys a license under the Philip s I 2 C Patent Rights to use these components in an I 2 C syste m, provided that the system conforms to the I 2 C standard Specification as defined by Philips. Document 800015701 Rev. LSI Cor poration reser ves the right to make changes to any products herein at any time without notice.

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trademarks of Microsoft Corporation. SUSE is a trademark and NetWare is a registered trademark of Novell, Inc. Red Hat is a registered trademark of Red Hat, Inc. UnixWare is a registered trademark of The Open Group. OpenServer is a trademark of Caldera International, Inc. Linux is a registered trademark of Linus Torvalds. All other brand and product names may be trademarks of their respective companies. It contains complete installation instructions for these RAID controllers and includes specifications for them. For information about the operating system drivers, refer to the MegaRAID SAS Device Driver Installation User's Guide. Audience This document assumes that you have some familiarity with RAID controllers and related support devices. The people who benefit from this book are B This document describes how to install the MegaRAID device driver for your operating system. The information in this document is independent of the backend bus and applies to the MegaRAID SAS RAID controllers. MegaRAID SAS Software User's Guide Document Number 800015601 Rev. C This document describes how to use the MegaRAID Storage Manager, WebBIOS, and command line interface CLI utilities to configure, monitor, and maintain MegaRAID SAS RAID controllers and the storage-related devices connected to them.

Intelligent Battery Backup Units for 1078based MegaRAID Products User's Guide Document Number 800016201 Rev. B This document describes how to install and use the LSI battery backup units for MegaRAID 1078based SAS RAID controllers. The 1078based SAS boards use the LSI intelligent Battery Backup Unit 01 LSiBBU01, LSI intelligent Battery Backup Unit 05 LSiBBU05, LSI intelligent Battery Backup Unit 06 LSiBBU06, LSI intelligent Battery Backup Unit 07 LSiBBU07, and the LSI intelligent Transportable Battery Backup Unit 03 LSiTBBU03. Conventions The following table describes how the user interacts with the product. Note Notes contain supplementary information that can affect system performance. Caution Cautions are notifications that an action has the potential to adversely affect equipment operation, system performance, or data integrity. Notation Example Meaning and Use Courier typeface.nwk file Names of commands, files, and directories, as well as code and screen messages, are shown in Courier. Bold typeface fd1sp In a command line, keywords are shown in bold, nonitalic typeface. Enter them exactly as shown. Italics module In command lines and names, italics indicate user variables. Replace italicized text with appropriate user specified items. Enter items of the type called for, using lowercase. Initial capital letters Undo Edit Apply Names of menu commands, options, check buttons, text buttons, options buttons, text boxes, list boxes, and so on., are shown in text with Initial Capital lettering to avoid misreading. These elements might appear on your screen in all lowercase. Semicolon, and other punctuation Use as shown in the text. Revision History Safety Instructions Use the following safety guidelines to help protect your computer system from potential damage and to ensure your own personal safety.

Note Use the MegaRAID 1078based SAS RAID controllers with ULlisted Information Technology Equipment ITE products only. B September 2007 Added the SAS 8708EM2 RAID controller, and the SAS 8880EM2 RAID controller 800015701 Rev. A February 2007 Initial release of the document. A void placing loose papers underneath your computer; do not place your computer in a closed-in wall unit or on a rug. Always follow installation and service instructions closely. 1. Turn off your computer and any peripherals. 2. Disconnect your computer and peripherals from their power sources. Also disconnect any telephone or telecommunications lines from the computer. Performing these actions reduces the potential for personal injury or shock. Some cables have a If you are disconnecting this type of cable, press in on the locking tabs before you disconnect the cable. As you pull connectors apart, keep them evenly aligned to avoid bending any connector pins. Do not touch the components or contacts on a card. Hold a card by its edges or by its metal mounting bracket. Hold a component, such as a microprocessor chip, by its edges, not by its pins. To prevent static damage, discharge static electricity from your body before you touch any of your computer's electronic components, such as the microprocessor. To discharge static electricity, touch an unpainted metal surface, such as the metal around the cardslot openings at the back

of the computer. As you continue to work inside the computer, periodically touch an unpainted metal surface to remove any static charge your body may have accumulated. If possible, use antistatic floor pads and workbench pads. MegaRAID 1078-based SAS RAID controllers provide reliability, high performance, and fault-tolerant disk subsystem management. They are an ideal RAID solution for the internal storage of workgroup, departmental, and enterprise systems.

MegaRAID 1078-based SAS RAID controllers offer a cost-effective way to implement RAID in a server. SAS technology brings a wealth of options and flexibility with the use of SAS and SATA devices within the same storage infrastructure. However, SAS and SATA devices bring individual characteristics that make each one a more suitable choice depending on your storage needs. MegaRAID gives you the flexibility to combine these. Note LSI recommends that you carefully assess any decision to mix SAS and SATA drives within the same virtual disks. Although you can mix drives, LSI strongly discourages the practice. The MegaRAID 1078-based SAS RAID controllers are based on the LSI first-to-market SAS IC technology and proven MegaRAID technology. As second-generation PCI Express RAID controllers, the MegaRAID SAS RAID controllers address the growing demand for increased data throughput and scalability requirements across midrange and enterprise class server platforms. LSI offers a family of MegaRAID SAS RAID controllers addressing the needs for both internal and external solutions. The SAS controllers support the ANSI Serial Attached SCSI standard, version 1.1. In addition, the controller supports the SATA II protocol defined by the SATA specification, version 1.0a. Supporting both the SAS and SATA II interfaces, the SAS controller is a versatile controller that provides the backbone of both server and high-end workstation environments. Each MegaRAID 1078-based SAS RAID controller can connect to drives directly and can use expanders to connect to additional drives. Simplified cabling between devices is an additional benefit. Note The MegaRAID SAS 8704ELP RAID controller and the MegaRAID SAS 8704ELP RAID controller provide an x4 PCI Express interface. The MegaRAID SAS 8708EM2, the MegaRAID SAS 8880EM2, and the MegaRAID SAS 8888ELP RAID controllers provide an x8 PCI Express interface.

The LSI SAS1078 ROC device provides the maximum benefits of a RAID system and enables you to configure the system to satisfy your system requirements. The LSI SAS1078 ROC device increases system performance and provides fault-tolerant data storage. The LSI SAS1078 supports data striping across multiple disks, which reduces disk access time because multiple disks simultaneously read or write data. The LSI SAS1078 ROC device backs up data with either data mirroring or a parity block. Either backup method enables you to recover lost data in the event of a disk failure. You can select the data backup method that best suits your needs. A hardware RAID assist exclusive XOR engine speeds parity generation and checking and reduces system access times. The LSI SAS1078 ROC device adheres to the PCI Express Specification, Revision 1.0a. The PCI Express software is backward compatible with previous revisions of the PCI bus and PCI-X bus. SSP enables communication with other SAS devices. This configuration is mostly for low-end or entry servers. Enclosure management is provided through out-of-band I2C bus. External enclosure management is supported. The configuration must support STP and SMP. Figure 1.1 shows a direct connect configuration. The Inter IC I2C interface communicates with peripherals. The external memory bus provides a 32-bit memory bus, parity checking, and chip select signals for pipelined synchronous burst static random access memory PSBRAM, non-volatile static random access memory NVSRAM, and Flash ROM. Note The external memory bus is 32-bit for the SAS 8704ELP and the SAS 8708ELP, and 64-bit for the SAS 8708EM2, the SAS 8880EM2, and the SAS 8888ELP. Figure 1.1 Example of an LSI SAS DirectConnect Application Figure 1.2 shows an example of a SAS RAID controller configured with an LSI SASx12 expander that is connected to SAS disks, SATA II disks, or both.

SAS is a convergence of the advantages of SATA II, SCSI, and Fibre Channel, and is the future

mainstay of the enterprise and high-end workstation storage markets. SAS offers a higher bandwidth per pin than parallel SCSI, and it improves signal and data integrity. The SAS interface uses the proven SCSI command set to ensure reliable data transfers, while providing the connectivity and flexibility of point-to-point serial data transfers. The serial transmission of SCSI commands eliminates clock skew challenges. The SAS interface provides improved performance, simplified cabling, smaller connectors, lower pin count, and lower power requirements when compared to parallel SCSI. SAS controllers leverage a common electrical and physical connection interface that is compatible with Serial ATA technology. SCSI cable or 26-wire ATA cable. The point-to-point SATA II architecture eliminates inherent difficulties created by the legacy ATA masterslave architecture, while maintaining compatibility with existing ATA firmware. 1.5.1 PCI Express Architecture PCI Express is a local bus system designed to increase data transfers without slowing down the central processing unit CPU. You can install MegaRAID PCI Express RAID controllers in PCI Express computer systems with a standard bracket type. With these adapters in your system, you can connect SCSI and SATA II devices over the bus. It contains information on SAS features, SATA II features, PCI performance, integration, usability, and flexibility. For example, the maximum number of arrays is equal to the number of physical disks supported by the controller, up to a limit of 128 arrays per controller. Thus, for the SAS 8704ELP RAID controller, the maximum number of arrays per controller, eight, is based on the maximum number of physical devices that can be connected.

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