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You can read the recommendations in the user guide, the technical guide or the installation guide for MAXDATA PLATINUM 200 I M9. You'll find the answers to all your questions on the MAXDATA PLATINUM 200 I M9 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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MAXDATA PLATINUM 200 I

User's Manual



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Manual abstract:

. 4. 5. 6. 7. 8. 9. 10. 11. 1.
1. 14. 15. 16. 17.
18. @@. . 4. 5.

6. 7. @@@@However, rooms with humidity over 70%, and dusty or dirty areas are not appropriate. In addition, do not expose the server to any temperatures over +0°C or under +10°C. ! CAUTION For proper cooling and airflow, operate the system only with the chassis covers installed. ! CAUTION Make sure that the cables connecting the server to peripheral devices are not tight. ! CAUTION Make sure that all power and connection cables are positioned so that they are not trip hazards. ! CAUTION When you save data to your server's hard disks or to a floppy disk, they are stored as magnetic information on the media. Make sure that they are not damaged by magnetic or electromagnetic fields. ! CAUTION Because the electronics in your computer can be damaged by jarring, no mechanical devices should be placed on the same surface as the server.

This is especially important for impact printers whose vibrations could damage the hard disk. ! CAUTION Hazardous conditions, devices and cables: Hazardous electrical conditions may be present on power, telephone, and communication cables. Turn off the server and disconnect the power cord, telecommunications systems, networks, and modems attached to the server before opening it. Otherwise, personal injury or equipment damage can result. ! CAUTION Electrostatic discharge (ESD) and ESD protection: ESD can damage disk drives, boards, and other partstem. Table summarizes the features of the server system. Table 2. Feature Summary Feature Chassis Dimensions Description 450 mm high 195 mm wide 501 mm deep 18.0 kg max. chassis weight · Support for one Intel® Xeon® 3400 Series Processor · LGA 1156 socket Two memory channels with support for 1066/1333 MHz ECC Unbuffered DDR3 DRAM (UDIMM) or ECC Registered DDR3 DRAM (RDIMM, Intel® Xeon® 3400 Series only). · Up to 2 UDIMMs or 3 RDIMMs (Intel® Xeon® 3400 Series only) per channel · 32 GB max with x8 ECC RDIMM (2 Gbit DRAM) and 16 GB max with x8 ECC UDIMM (1 Gbit DRAM) · Intel® 3420 Chipset Platform Controller Hub (PCH) · ServerEngines LLC Pilot II BMC controller (Integrated BMC) External connections: · One DB-15 graphics port · One DB-9 serial port A · Two RJ45 network ports for 10/100/1000 Mbps · Four USB 2.0 ports (back panel) · Two USB 2.0 ports (front) Internal connections: · One 2x5 USB connector for two USB 2.0 ports · One vertical type A USB connector · One 2x5 connector for serial port B · Six SATA-II ports with integrated RAID support (Matrix Storage Raid Technology, Raid 0, 1, 5, 10) · One port for an optional remote management module 3 Video LAN Expansion Capabilities On-board controller ServerEngines LLC Pilot II with integrated 2D video controller, 64 MB DDR2 memory, 8 MB of which is graphics memory · One Gigabit Ethernet 82574L controller · One Gigabit Ethernet 82578DM controller · · · · · Slot 1: 5V PCI 32 bit / 33 MHz Slot 2: PCI Express Gen1 x4 (x1 connection) Slot 3: PCI Express Gen1 x8 (x4 connection) Slot 4: PCI Express Gen2 x8 (x4 connection) Slot 5: PCI Express Gen2 x8 (x8 connection) Slot 6: PCI Express Gen2 x16 (x8 connection) Processor Memory Chipset Peripheral Interfaces Hard Drives Support for · two internal SATA drives or · up to four hot-swap SAS/SATA drives Single or redundant 300 W / 350 W power supply Support for two system fans and one processor fan Integrated IPMI 2.0-compliant baseboard management controller · Support for remote management module 3 ("KVM over IP") · Support for system management software Power supply Fans System Management MAXDATA PLATINUM 00 I M9 9 Connector and Header Locations Figure shows the approximate location of the major components on board.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Figure 3. Board Connector and Component Locations Table 3. Board Connectors and Components Label Description A. B. C. D. E. F. G. H. I. J. K. L. M.

N. O. P. Q. R. Slot 1, 32 Mbit/33 MHz PCI Slot 2, PCI Express Gen1 x1 (x4 connector) Intel RMM3 connector Slot 3, PCI Express Gen1 x4 (PCI Express Gen2 compliant) Slot 4, PCI Express Gen2 x4 (x8 connector) Slot 5, PCI Express Gen2 x8 (x8 connector) CMOS battery Ethernet and dual USB combo Ethernet and dual USB combo System fan 4 Video port External serial port Main power connector CPU power connector System fan 3 System fan 2 CPU socket Label Description S. T. U. V. W. X. Z. AA. BB. CC. DD. EE. FF. GG. HH.

II. CPU fan connector USB SSD connector SAS module connector System fan 1 IPMB SATA_SGPIO HSBP Type A USB port SATA port 0 SATA port 3 SATA port 1 SATA port 4 SATA port 2 SATA port 5 USB connectors Front panel connector Internal serial port Slot 6, PCI Express Gen2 x8 (x16 connector) Y. 10 DIMM_A3 DIMM_A2 DIMM_A1 DIMM_B3 DIMM_B2 DIMM_B1 FF Server Features Configuration Jumpers Figure 4 shows the location of the configuration jumpers. BMC Force Update J1A2 2 3 Default Enabled ME Force Update J1F1 2 3 Default Enabled BIOS Recovery J1F3 2 3 Default Recover Password Clear J1F2 2 3 Default Password Clear CMOS Clear J1F5 2 3 Default CLEAR CMOS Figure 4. Configuration Jumpers SSI Front Panel Connector The server board provides a 4-pin SSI front panel connector. The following figure shows the pin-out for this connector. A B C D F Figure 5. SSI Front Panel Connector A. B. C.

Power LED HDD LED Power Button D. E. F. Reset Button NIC1 LED NIC2 LED E MAXDATA PLATINUM 00 I M9 11 Hardware Requirements To avoid integration difficulties and possible board damage, your system must meet the requirements outlined below. Processor The mainboard supports one Intel® Xeon® 400 series processor with up to 95 W Thermal Design Power (TDP) with .5 GT/s. Memory The server board supports two memory channels with up to three DIMM sockets per channel. The minimal memory population is one DIMM in memory slot DIMM_A1. Matching pairs of DIMMs across channels is recommended (e.g.

DIMM_A - DIMM_B). Within a channel DIMM sockets with a lower number must be populated before sockets with a higher number. Supported Memory Modules · · · · 1.5 V DDR DIMMs, registered (RDIMMs) or unbuffered (UDIMMs) Mixing of RDIMMs and UDIMMs is not permitted The following DIMM and DRAM technologies are supported: RDIMMs: - Single, dual and quad rank - x8 DRAM with Gbit technology - DDR 1 (only single and dual rank), DDR 1066 and DDR 800 · UDIMMs: - Single and dual rank - x8 DRAM with Gbit technology - DDR 1, DDR 1066 and DDR 800 Optional Hardware Remote Management Module The Remote Management Module provides extended functions for server management. A network card is provided specifically for remote access.



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1 Server Features 3 Hardware Installations and Upgrades Before You Begin Before working with your server product, pay close attention to the "Safety Information" at the beginning of this manual. System references in relation to the chassis refer to a pedestal-mounted server when viewed from the front. Tools and Supplies Needed . . . Phillips (cross head) screwdriver (#1 bit and #2 bit) Needle nosed pliers Antistatic wrist strap and conductive foam pad (recommended) Removing and Installing the Bezel Assembly To remove the bezel assembly, follow these instructions: 1. Unlock the two plastic tabs on top of the bezel assembly by pressing lightly (see Figure 6, point A) .

Rotate the bezel assembly no more than 40 degrees forward and pull it diagonally upwards. To install the bezel assembly, follow these instructions: 1. Place the bezel assembly with bezel hooks on the metal ridge on the lower front side of the chassis. During installation, the bezel assembly is at an opening angle of approx. 0 degrees to the top of the chassis. . Rotate the bezel assembly towards the chassis and push against it so that the hooks snap into place on top. A

Figure 6. Bezel assembly MAXDATA PLATINUM 00 I M9 1 Removing the Chassis Cover 1. Remove the cover.

. Loosen the three thumbscrews that fasten the left front cover to the chassis. . Pull the cover outwards (approx. 1 cm) so that the guiding hooks can slide out of the chassis grooves. 4. Tilt the chassis cover upwards on its side and then take it off. Installing 5.25-inch Drive (DVD, streamer) The server is supplied with a total of six mounting rails for 5.5-inch devices.

Unused mounting rails can be found on the chassis beside or above the assembly areas of the drive cages. 1. Remove chassis cover. . Unscrew two drive rails from their storage place beside the drive cages.

. Attach one drive rail each to the both left and right sides of the drive. The green handles should face outwards. 4. Remove the blank cover from the relevant 5.

5-inch bay (chassis and bezel). 5. Finish inserting the drive into the bay until the drive rails lock into place. 6. Connect the drive to the power supply and data cable according to the manufacturer's instructions. 7. Replace the chassis cover and reconnect the bezel assembly. To remove a 5.5-inch drive, push the green handles inwards towards the mounting rails and pull the drive and rails forwards. Installing SATA or SAS Hot Swap Drives 1.

Press in on the green latch (letter "A") at the end of the drive carrier to disengage it from the hot swap drive cage. Pull out on the black lever (letter "B") to fully open the drive carrier. When the lever reaches a fully opened position, it will push the drive carrier out from the hot swap drive cage. Figure 7.

Releasing Drive Carrier from Hot Swap Cage 14 Hardware Installations and Upgrades . Slide the drive carrier out of the drive cage. . Remove the four screws that secure the plastic retention device to the drive carrier. Remove the plastic retention device. Figure 8.

Removing Plastic Retention Device 4. Secure the hard drive to the drive carrier using the four screws that were formerly attached to the plastic retention device. Ensure that the connector end of the hard drive is facing the back of the drive carrier. The label side of the hard drive should be facing up in the drive carrier. Figure 9.

Securing Hard Drive to Drive Cage 5. With the black lever open, insert the drive carrier into the drive cage. Once inserted, rotate the black lever upwards to latch the drive carrier into position. Figure 10. Inserting Drive Carrier into Drive Cage MAXDATA PLATINUM 00 I M9 15 Installing or Replacing a Processor / NOTE Use the instructions provided below to install or replace a processor instead of using the instructions that came with the processor.

When installing a second processor, verify that the processors are identical and of the same voltage and speed. Do not mix processors of different types or frequencies. CAUTIONS Processor must be appropriate: You may damage the server board if you install a processor that is inappropriate for your server. ESD and handling processors: Reduce the risk of electrostatic discharge (ESD) damage to the processor by doing the following: (1) Touch the metal chassis before touching the processor or server board. Keep part of your body in contact with the metal chassis to dissipate the static charge while handling the processor. (2) Avoid moving around unnecessarily. Installing a Processor 1. Observe the safety and ESD precautions above and at the beginning of this book. . Turn off all peripheral devices connected to the server.

Turn off the server. . Disconnect the AC power cord from the server. 4. Remove the server's cover. 5. Locate the processor socket (see Figure on page 10). 6. Disconnect and remove any components necessary to access the processor socket. 7.

Push down the lever on the processor socket. While pushing downward, push it away from the socket to release it from the hook. Open the socket lever completely. See figure 11. RE MO VE A B Figure 11.

Opening the Processor Socket Lever AF003186 16 Hardware Installations and Upgrades 8. Push the rear tab with your fingertip to bring the front end of the load plate up slightly. Open the load plate completely. See figure 1. A RE MO VE B RE MO VE Figure 12.

Opening Load Plate AF003187 9. If there is a protective covering on the load plate, remove it and store it for later use. RE MO VE Figure Grosse Point Server Board 13. Removing Protective Covering from the Load Plate AF003188 AF003187.ai 10. Take 11 May 2009 the processor out of the box and remove the protective shipping covering. 11. Align the Heideman Assoc. processor with the socket in such a way that both notches match up with the processor socket pins. Gently insert the processor into the socket.

Grosse Point Server Board AF003188.ai 11 May 2009 Heideman Assoc. A Figure 14. Inserting the Processor AF003190 MAXDATA PLATINUM 00 I M9 17 1. Close the load plate (see letter "A"), close the socket lever, and ensure the load plate tab engages under the socket lever when fully closed (see letter "B" and "C"). A B C D AF003191 Figure 15. Closing Load Plate and Socket Lever 1. Attach the heat sink (see next page). Grosse Point Server Board AF003191.ai 11 May 2009 Heideman Assoc.

18 Hardware Installations and Upgrades Installing the Heat Sink The heat sink has Thermal Interface Material (TIM) located on the bottom of it. Use caution when you unpack the heat sink so you do not damage the TIM. 1. Set the heat sink over the processor, lining up the four captive screws with the four posts surrounding the processor. .

Loosely screw in the captive screws on the heat sink corners in a diagonal manner. Do not fully tighten one screw before tightening another. .



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If a pick list is displayed, the Enter key will undo the pick list, and allow another selection in the parent menu. Exit - The ESC key provides a mechanism for backing out of any field.

This key will undo the pressing of the Enter key. When the ESC key is pressed while editing any field or selecting features of a menu, the parent menu is re-entered. When the ESC key is pressed in any sub menu, the parent menu is re-entered. When the ESC key is pressed in any major menu, the exit confirmation window is displayed and the user is asked whether changes can be discarded. Setup Defaults - Pressing F9 causes the following to appear: F5/F6/+ <Enter> <Esc> <F9> Setup Confirmation [Yes] [No] Load default configuration now? If "Yes" is selected and the Enter key is pressed, all Setup fields are set to their default values.

If "No" is selected and the Enter key is pressed, or if the ESC key is pressed, the user is returned to where they were before F9 was pressed without affecting any existing field values. <F10> Save and Exit - Pressing F10 causes the following message to appear: Setup Confirmation [Yes] [No] Save Configuration changes and exit now? If "Yes" is selected and the Enter key is pressed, all changes are saved and Setup is exited. If "No" is selected and the Enter key is pressed, or the ESC key is pressed, the user is returned to where they were before F10 was pressed without affecting any existing values. 6 Server Utilities Clearing the CMOS If you are not able to access the BIOS setup screens, the CMOS Clear jumper will need to be used to reset the configuration RAM. 1. Power down the system and disconnect the AC power. . Open the server. . Move the jumper from the normal operation position, at pins 1 and , to the CMOS Clear position, covering pins and . 4. Wait 5 to 10 seconds. 5. Return the CMOS Clear jumper to the Normal location, covering pins 1 and . 6.

Close the server chassis. 7. Reconnect the AC power and power up the system. MAXDATA PLATINUM 00 I M9 7 Configuring the System for embedded Serial ATA RAID Configuring the BIOS 1. Make sure you are having at least two SATA hard drives. . Enter system BIOS Setup by pressing the <F> key after the Power-On-Self-Test (POST) memory tests begin. . Go to "Advanced" - "Mass Storage Controller Configuration"; Set "SATA Mode" to one of the following modes: . ENHANCED Supports up to 6 SATA ports with IDE Native Mode (no RAID). . Intel ESRT Intel® Embedded Server RAID Technology II supports RAID modes 0, 1, and 10.

. Matrix Storage Intel® Matrix Storage Technology supports RAID modes 0, 1, 10, and 5. 4. Save your settings by pressing <F10>. Creating Intel® Matrix Storage Technology RAID set / NOTE This RAID is supported for Windows operating systems only. 1.

Upon re-boot you will see the Intel® Matrix Storage Manager Option ROM status message on the screen. Press CTRL-I to enter the RAID Option ROM user interface. . In the User Interface menu, select option #1; Create RAID Volume. Enter a volume name, press <enter>.

The RAID Volume name must be in English alphanumeric ASCII characters. . Use the arrow keys to select the RAID level (0/1/5/10), press <enter>. 4. Select the drives to be used in the RAID array (only if there are more than two drives available), press <enter>. 5. Select the stripe size (only for RAID 0/5), and press <enter>. 6. Enter the size of the volume (If you select less than the maximum volume size you can create a second RAID array on the remaining portion of your volume, not recommended), and press <enter>. 7.

Finally press <Y> to confirm your selections. 8. Exit the Option ROM user interface by pressing <ESC>. Creating LSI Technology RAID set 1. Upon re-boot you will see the Embedded RAID Option ROM status message on the screen. Press CTRL-E to enter the RAID Option ROM user interface. . In the Management Menu, select option #1: "Configure". Choose "Easy Configuration". .

Mark ready drives to be used in the RAID array using the space bar and press F10 to end selection. 4. @@5. @@Accept the settings. 6.

@@7. Return to the Management Menu and Initialize the new RAID. 8. @@Begin Microsoft® Windows® Setup by booting from the Microsoft® Windows® installation CD. .

At the beginning of Microsoft® Windows® Setup, press <F6> to install a third-party SCSI or RAID driver. When prompted, insert the floppy with the RAID driver. Install the appropriate SATA RAID Controller driver, either "Intel(R) ICH9R SATA RAID Controller" for Intel® Matrix Storage Technology RAID set or "Intel Embedded Server RAID Technology" for LSI technology RAID set. . Finish the Microsoft® Windows® installation and install all necessary drivers.

4. Install the monitoring software included with your motherboard or after downloading it from the Internet: LSI MegaRAID Storage Manager or Intel® Matrix Storage Manager depending on the RAID technology you chose previously. This will allow for local monitoring of the RAID configuration.

Additionally errors will be entered to the local system log files. MAXDATA PLATINUM 00 I M9 9 5 Rack Installation The PLATINUM 00 I is available with an optional slide rail kit for rack installation.

The following instructions apply to servers with this rack option only. Parts List The following is a list of all the parts that are relevant for installation; each part is designated with a letter that is used in the installation guide. External Rail The middle rail (B) is slid inside the external rail (A) and the internal rail (C) in turn is inside the middle rail (B). Middle Rail Internal Rail End Bracket Round head screw, large Round head screw, small Nut Perforated Plate with threaded holes / NOTE Countersunk screws are not required. Tip: Customers with a MAXDATA rack can simplify installation of the server by taking the screws, washers, and clamping nuts from the fastening set of their cabinet. MAXDATA PLATINUM 00 I M9 1 Installation 1. Pull the internal rail (C) out of the middle rail (B). . Leave the middle rail (B) inside the external rail (A). .

Measure the distance between the front and rear breadboard section of your cabinet. At-tach the silver end brackets (D) to the external rail (A) with two screws (E) and two nuts (G) each. Be careful to make sure that the distance between the fastening bracket for the external rail (A) and the end bracket (D) is the same as the distance between both bread-board sections of your server cabinet. Rack Installation 4. Attach the rails in the rear of the server cabinet with the silver end brackets (D).

First hold the fastening bracket up to the breadboard. Then set the perforated plate with the threa-ded holes (H) behind the breadboard section. Finish by inserting the screws (E) from the front through the breadboard and the fastening bracket to the perforated plates (H) Front: A Rear: D 5.



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Attach the internal rails (C) with the locking device in the rear of the server housing with the small screws (F). 6.

When finished, you can slide the server into the server cabinet by pushing the inner rail (C) into the middle rail (B). To be able to slide the server completely inside, you have to push in the locking device at both sides of the rails. MAXDATA PLATINUM 00 I M9 4 6 Technical Reference Power Supply Specifications

300 W Single Power Supply Input Voltage · 10040 V~ at 5060 Hz; .5 A max. 300 W Single Power Supply Output Voltages The table below lists the total wattage available for supplying power from the power subsystem for each voltage. Table 5. 300 W Power Supply Output Rating Voltage +3.3 V +5 V +5 V Standby +12 V (2 power supply rails) 12 V Maximum Current 20 A 20 A 2.5 A 24 A (16 A for one power supply rail) 0.5 A 350 W Redundant Power Supply Input Voltages · 10040 V~ at 5060 Hz; 6 A max.

350 W Redundant Power Supply Output Voltages The table below lists the total wattage available for supplying power from the power subsystem for each voltage. Table 6. 350 W Power Supply Output Rating Voltage +3.3 V +5 V +5 V Standby +12 V 12 V Maximum Current 18 A 25 A 3A 16 A 0.5 A MAXDATA PLATINUM 00 I M9 5 6 7 Regulatory and Compliance Information Product Regulatory Compliance Product Safety Compliance The server complies with the following safety requirements: · · EN 60950 (European Union) CE Low Voltage Directive (7//EEC) (European Union) Product RoHS Compliance Restriction of Hazardous Substances: This server system is compliant to European Directive 00/95/ EC (RoHS). Product EMC Compliance The server has been tested and verified to comply with the following electromagnetic compatibility (EMC) regulations: · · · EN 550 (Class A) Radiated & Conducted Emissions (European Union) EN 5504 (Immunity) (European Union) CE EMC Directive (89/6/EEC) (European Union) Product Regulatory Compliance Markings This product is marked with the following Product Certification Markings: Table 7. Product Certification Markings CE Mark Electromagnetic Compatibility Notices Europe (CE Declaration of Conformity) This product has been tested in accordance too, and complies with the Low Voltage Directive (7// EEC) and EMC Directive (89/6/EEC). The product has been marked with the CE Mark to illustrate its compliance. MAXDATA PLATINUM 00 I M9 7 .



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