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You can read the recommendations in the user guide, the technical guide or the installation guide for MAXDATA PLATINUM 300 IR M8. You'll find the answers to all your questions on the MAXDATA PLATINUM 300 IR M8 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual MAXDATA PLATINUM 300 IR M8**  
**User guide MAXDATA PLATINUM 300 IR M8**  
**Operating instructions MAXDATA PLATINUM 300 IR M8**  
**Instructions for use MAXDATA PLATINUM 300 IR M8**  
**Instruction manual MAXDATA PLATINUM 300 IR M8**

**MAXDATA PLATINUM 300 IR**

**User's Manual**



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*.....5 Contents 1 Setting up the System Safety Information Server Position Please take note of the following criteria for creating a practical and safe workplace when setting up your computer: ! CAUTION The system can be used anywhere the temperature is suitable for people. 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 parts.

We recommend that you perform all procedures in chapter only at an ESD workstation. If one is not available, provide some ESD protection by wearing an antistatic wrist strap attached to chassis ground any unpainted metal surface on your server when handling parts. ! ATTENTION In order to fully separate the server from current, the power cord must be removed from the wall outlet. MAXDATA PLATINUM 00 IR M8 5 System Access Warnings ! CAUTION To avoid personal injury or property damage, the following safety instructions apply whenever accessing the inside of the product: . . . . . Turn off all peripheral devices connected to this product. Turn off the system by pressing the power button to off. Disconnect the AC power by unplugging all AC power cords from the system or wall outlet. Disconnect all cables and telecommunication lines that are connected to the system. Retain all screws or other fasteners when removing access cover(s). Upon completion of accessing inside the product, refasten access cover with original screws or fasteners. Do not access the inside of the power supply.

There are no serviceable parts in the power supply. Return to manufacturer for servicing. Power down the server and disconnect all power cords before adding or replacing any non hot plug component. When replacing a hotplug power supply, unplug the power cord to the power supply being replaced before removing the power supply from the server. ! CAUTION If the server has been running, any installed processor(s) and heat sink(s) may be hot. Unless you are adding or removing a hotplug component, allow the system to cool before opening the covers. To avoid the possibility of coming into contact with hot component(s) during a hotplug installation, be careful when removing or installing the hotplug component(s). ! CAUTION To avoid injury do not contact moving fan blades. If your system is supplied with a guard over the fan, do not operate the system without the fan guard in place. Rack Mount Warnings The equipment rack must be anchored to an unmovable support to prevent it from tipping when a server or piece of equipment is extended from it. The equipment rack must be installed according to the rack manufacturer's instructions. Install equipment in the rack from the bottom up, with the heaviest equipment at the bottom of the rack. Extend only one piece of equipment from the rack at a time. You are responsible for installing a main power disconnect for the entire rack unit. This main disconnect must be readily accessible, and it must be labeled as controlling power to the entire unit, not just to the server(s).

To avoid risk of potential electric shock, a proper safety ground must be implemented for the rack and each piece of equipment installed in it. 6 Setting up the System Powering up the System At the front of the case, you can find the necessary controls like power button, reset button and the HDD LEDs. Press the power button one time briefly in order to boot the server. DVD Figure 1. Front View A.

B. C. D. E. HDD Tray Activity LEDs USB 2.0 Port Reset Button Fan Alarm Mute Button System HDD Activity LED F. G. H. I. J.

Power LED Failure LED NIC Activity LED 1 NIC Activity LED 2 (not used in this sytem) Power Button MAXDATA PLATINUM 00 IR M8 7 8 2 System Features This chapter briefly describes the main features of the server system. Table 1 summarizes the major features of the board. Table 1. Feature Summary  
Feature Chassis Dimensions Description 43.5 mm high 430 mm wide 569 mm deep 17.0 kg max. chassis weight · Supports Dual-Core Intel® Xeon® processor 3000 series and QuadCore Intel® Xeon® processor 3200 series · Supports Intel® Extended Memory System 64 Technology (EM64T) Four DIMM sockets supporting stacked DDR2 667/800 MHz ECC or non-ECC unbuffered memory (up to 8 GB of total system memory) Intel® 3200 Chipset, consisting of: · Intel® 3200/3210 Memory Controller Hub (MCH) · Intel® I/O Controller Hub (ICH9R) · Intel® 6702 PXH-V PCI-X Hub Super I/O: Winbond 8374LF2 External connections: · Stacked PS2 ports for keyboard and mouse · DB9 Serial A port · Two RJ45 NIC connectors for 10/100/1000 Mbps connections · Two USB 2.0 ports Internal connections: · One USB port headnts To avoid integration difficulties and possible board damage, your system must meet the requirements outlined below. Processor Supports DualCore Intel® Xeon® processor 000 series and QuadCore Intel® Xeon® processor 00 series.



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Memory The Server Board provides four DIMM sockets across two banks.

Bank 1 consists of DIMM sockets A1 and B1. Bank consists of DIMM sockets A and B. Minimum memory operation is a single 51MB DIMM in socket A1.

This will provide singlechannel interleave. For dualchannel interleave, two identical DIMMs are required in sockets A1 and B1.

To operate in dualchannel dynamic paging mode, the following conditions must be met: · · · Populate two identical DIMMs in sockets DIMM A1 and DIMM B1. Populate four identical DIMMs in each socket location. / Note The use of three DIMMs is not supported. Use DIMMs that are the same type and speed. Use of identical DIMMs is preferred.

DIMMs must meet the following requirements: · · Use only DIMMs with DDR DRAM technology. Use only DDR667 and DDR800 stacked DIMM modules. MAXDATA PLATINUM 00 IR M8 1 1 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. Tools and Supplies Needed · · · Phillips (cross head) screwdriver (#1 bit and # bit) Needle nosed pliers Antistatic wrist strap and conductive foam pad (recommended) Installing and Removing Memory The silkscreen on the board for the DIMMs displays DIMM A1, DIMM A, DIMM B1, DIMM B starting from the center of the board. DIMM A1 is the socket closest to the processor socket. See „Memory" for a discussion of the memory requirements and options. Installing DIMMs To install DIMMs, follow these steps: 1. @@. Turn off all peripheral devices connected to the server. Turn off the server.

. Disconnect the AC power cord from the server. . Remove the server's cover. 5. Locate the DIMM sockets (see Figure 5). C D A DIMM A1 DIMM A2 DIMM B2 DIMM B1 B Figure 5. Installing DIMMs MAXDATA PLATINUM 00 IR M8 15 6. @@7. Holding the DIMM by the edges, remove it from its antistatic package.

8. Position the DIMM above the socket. @@9. @@10. @@@@11.

@@@ OSTRZEENIE Nieprawidłowa wymiana baterii grozi eksplozją. @@@@ ADVARSEL Lithiumbatteri - Eksplosjonsfare. @@ VARNING Explosionsfara vid felaktigt batteribybyte. @@Kassera använt batteri enligt fabrikantens instruktion. ! @@@@.

Turn off all peripheral devices connected to the server. Turn off the server. . Disconnect the AC power cord from the server. . Remove the server's cover and locate the battery. 5. Lift the battery retention mechanism (see Figure 6). 6. Remove the battery from its socket.

Figure 6. Removing the Battery 7. Dispose of the battery according to local ordinance. 8. @9. Close the chassis. 10. @@@@ Except for those features that are provided only to display automatically configured information, each feature is associated with a value field that contains userselectable parameters.

These parameters can be changed if the user has adequate security rights. If a value cannot be changed for any reason, the feature's value field is inaccessible.

MAXDATA PLATINUM 00 IR M8 19 Table 6 describes the keyboard commands you can use in the BIOS Setup menus. Table 6. Keyboard Commands Press <F1> Description Help - Pressing F1 on any menu invokes the general Help window. The left and right arrow keys are used to move between the major menu pages. The keys have no effect if a sub menu or pick list is displayed.

Select Item up - The up arrow is used to select the previous value in a menu item's option list, or a value field pick list. Pressing the Enter key activates the selected item. Select Item down - The down arrow is used to select the next value in a menu item's option list, or a value field pick list. Pressing the Enter key activates the selected item. Change Value - The minus key or the F5 function key is used to change the value of the current item to the previous value.

This key scrolls through the values in the associated pick list without displaying the full list. Change Value - The plus key or the F6 function key is used to change the value of the current menu item to the next value. This key scrolls through the values in the associated pick list without displaying the full list. On 106-key Japanese keyboards, the plus key has a different scan code than the plus key on the other keyboard, but it has the same effect. Execute Command - The Enter key is used to activate submenus when the selected feature is a sub menu, or to display a pick list if a selected feature has a value field, or to select a sub-field for multi-valued features like time and date. 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. 0 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 . . 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 IR M8 1 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 PowerOnSelfTest (POST) memory tests begin. . @@@@. @1. Upon reboot you will see the Intel® Matrix Storage Manager Option ROM status message on the screen.



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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>. . 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 / NOTE This option will be implemented post product launch. 1. Upon reboot 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. . On the "Select Configurable Arrays" screen press <space> and <F10>. 5. Enter the properties of the new RAID: RAID Level (0/1/10), Size, Stripe Size. Accept the settings. 6.

Exit the Easy Configuration Screen using <ESC> and save the configuration. 7. Return to the Management Menu and Initialize the new RAID. 8. Exit the Option ROM user interface by pressing <ESC>. Server Utilities Loading the RAID Drivers 1. Begin Microsoft® Windows® Setup by booting from the Microsoft® Windows® installation CD. . At the beginning of Microsoft® Windows® Setup, press <F6> to install a thirdparty 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. .

Install the monitoring software included with your motherboard or after downloading it from the Internet: LSI MegaIDeSpy 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 IR M8 5 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 550 (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 IR M8 5 .



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