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User manual FUJITSU SIEMENS D1875
User guide FUJITSU SIEMENS D1875
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answers²



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Manual abstract:

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Dit handboek werd op recycling-papier gedrukt. Herausgegeben von/Published by Fujitsu Siemens Computers GmbH Bestell-Nr./Order No.: A26361-D1875-Z120-1-6319 Printed in the Federal Republic of Germany AG 0204 02/04 Ausgabe/Edition: 1 A26361-D1875-Z120-1-6319 Deutsch English Mainboard D1875 Français Technisches Handbuch Technical Manual Ausgabe Februar 2004 February 2004 edition Intel, Pentium und Celeron sind eingetragene Warenzeichen der Intel Corporation, USA. Microsoft, MS, MS-DOS und Windows sind eingetragene Warenzeichen der Microsoft Corporation. PS/2 und OS/2 Warp sind eingetragene Warenzeichen von International Business Machines, Inc. Alle weiteren genannten Warenzeichen sind Warenzeichen oder eingetragene Warenzeichen der jeweiligen Inhaber und werden als geschützt anerkannt. Copyright © Fujitsu Siemens Computers GmbH 2004 Alle Rechte vorbehalten, insbesondere (auch auszugsweise) die der Übersetzung, des Nachdrucks, der Wiedergabe durch Kopieren oder ähnliche Verfahren. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte vorbehalten, insbesondere für den Fall der Patenterteilung oder GM-Eintragung. Liefermöglichkeiten und technische Änderungen vorbehalten. Dieses Handbuch wurde erstellt von cognitas. Gesellschaft für Technik-Dokumentation mbH www.cognitas.de Intel, Pentium and Celeron are registered trademarks of Intel Corporation, USA. Microsoft, MS, MS-DOS and Windows are registered trademarks of Microsoft Corporation. PS/2 and OS/2 Warp are registered trademarks of International Business Machines, Inc. All other trademarks referenced are trademarks or registered trademarks of their respective owners, whose protected rights are acknowledged. All rights, including rights of translation, reproduction by printing, copying or similar methods, even of parts are reserved. Offenders will be liable for damages.

All rights, including rights created by patent grant or registration of a utility model or design, are reserved. Delivery subject to availability. Right of technical modification reserved. This manual was produced by cognitas. Gesellschaft für Technik-Dokumentation mbH www.cognitas.de Übersicht/Overview Mainboard D1875 Interne Anschlüsse und Steckplätze / Internal connectors and slots 1 = Stromversorgung / Power supply 2 = Bedienfeld / Front panel 3 = Diskettenlaufwerk / Floppy disk drive 4 = USB 5 = USB 6 = IDE-Laufwerke 3/4 / IDE-drives 3/4 7 = IDE-Laufwerke 1/2 / IDE-drives 1/2 8 = Serial ATA 9 = Serial ATA 10 = Batterie / Battery 11 = FireWire-Anschluss (1394) / FireWire connector (1394) 12 = Lüfter 2 / Fan 2 (AUX) 13 = AUX-Audio in 14 = Audio-Bedienfeld / Audio front panel 15 = Summer / Buzzer 16 = Prozessor-Stromversorgung / Processor power supply 17 = Lüfter 1 / Fan 1 (CPU) Optionale Komponenten / Optional components 17 CPU Pentium4 1 DIMM 1 DIMM 2 16 2 3 AG P PCI 1 4 5 6 7 8 9 10 12 11 15 14 13 PCI 2 PCI 3 PCI 4 PCI 5 Externe Anschlüsse / External connectors 1394 Bedienfeld / Front panel Power On/Off 1) HD-LED 1) Power On LED 1) 2) Reset 1 2 Recovery Password Umschaltbar durch Treiber / Switchable via driver Standard 6-channel Rear Line In (blau/blue) Line Out (grün/green) Mic In (rot/red) Front Center / Low 1) Cable is not included in the delivery scope. 2) 2-pin or 3-pin connector possible A26361-D1875-Z120-1-6319, Ausgabe: 1 Umschlag/Cover Contents Übersicht/Overview Mainboard D1875 ...

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...36 A26361-D1875-Z120-1-6319, Edition: 1 English Mainboard D1875 Your mainboard is available in different configuration levels. Depending on the configuration chosen, some of the hardware components described may not be available on your mainboard. Additional information Information on the BIOS Setup and additional descriptions of the drivers are contained: · · · in the readme files on your hard disk on the driver floppy disks included on the CD "Drivers & Utilities Collection" or "Drivers & Utilities" or "ServerStart". i The programme Acrobat Reader must be installed to be able to open the manuals. You will find the programme on the CD-ROM directory: utls/acrobat. For more details please read the according readme.txt files.

Notational conventions The meanings of the symbols and fonts used in this manual are as follows: ! i indicates information which is important for your health or for preventing physical damage. indicates additional information which is required to use the system properly. Text which follows this symbol describes activities that must be performed in the order shown. This symbol indicates that you must enter a blank space (press the Space Bar) at this point. This symbol indicates that you must press the Enter key. Text in this typeface indicates screen outputs. Text in this bold typeface indicates the entries you make via the keyboard. Text in italics indicates commands or menu items. "Quotation marks" indicate names of chapters or terms. A26361-D1875-Z120-1-6319, Edition: 1 English - 1 Important notes Important notes With the mainboard installed you must open the system to access the mainboard. How to dismantle and reassemble the system is described in the operating manual accompanying the system. Connecting cables for peripherals must be adequately insulated to avoid interference. ! Observe the safety notes in the operating manual of your system. Incorrect replacement of the lithium battery may lead to a risk of explosion. It is therefore essential to observe the instructions in the "Add-on modules / Upgrading" - "Replacing the lithium battery" section.



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Components can become very hot during operation. Ensure you do not touch components when making extensions to the mainboard. There is a danger of burns! The shipped version of this board complies with the requirements of the EEC directive 89/336/EEC "Electromagnetic compatibility". Compliance was tested in a typical PC configuration. When installing the board, refer to the specific installation information in the manual for the receiving device.

The warranty is invalidated if the system is damaged during the installation or replacement of expansions. Information on which expansions you can use is available from your sales outlet or the customer service centre. Information about boards To prevent damage to the mainboard, the components and conductors on it, please take great care when you insert or remove boards. Take great care to ensure that extension boards are slotted in straight, without damaging components or conductors on the mainboard, or both on the OEM CD "Drivers & Utilities" and on the Internet. Multi Boot The BIOS of the Fujitsu Siemens Computers mainboards enables booting from all types mass storage devices. In addition to IDE hard disks, this also includes optical drives, such as CD-ROM, DVD and external drives that can be connected to USB or FireWire. USB Security USB Security is a BIOS function that offers protection against unauthorised access regardless of the operating system used. After the feature has been activated with a Fujitsu Siemens Memorybird, the system can only be started when this Memorybird is connected to one of the available USB ports. A26361-D1875-Z120-1-6319, Edition: 1 English - 5 Brief instructions on installing mainboard If you have purchased a separate mainboard, you can install it in your system in accordance with the following brief instructions. The activities described here assume a basic knowledge of PCs and cannot be carried out by a layperson.

If you are not sure whether you have the necessary specialised knowledge, then leave this work to an expert. The illustrations of the system show examples of possible cases. Prior to installation Please take note of the safety information in the "Important notes" chapter. Check whether the processor, memory modules and power supply are suitable for this mainboard: - - - processor (see "Replacing processor" chapter). memory modules (see "Upgrading main memory" chapter). power supply (see "Electrical Properties" chapter). Make sure the current requirement of the fans (processor, case) does not exceed the loadability of the fan connections (see chapter entitled "Electrical Properties"). First only install the components absolutely necessary (graphics card, processor and heat sink, one memory module) and only connect the required connections (power supply unit, case connections such as ATX on/off switch, hard disk or floppy disk drive). You should not install additional cards and devices until this minimum configuration successfully boots (see chapter entitled "Add-on modules / Upgrading"). Installation Equip the mainboard with the processor, heat sink and memory modules before installation if possible.

Further information can be found in "Replacing processor" chapter. Open the casing as described in the operating manual. 6 - English A26361-D1875-Z120-1-6319, Edition: 1 Brief instructions on installing mainboard Should no suitable connection field be provided in the case, then you must install the connection field (1) provided. Ensure the plate is aligned properly so that the connections are suitable for the mainboard later. Set the mainboard on the edge on which the connection field is located (2) and then insert the board in the case (3).

Make sure that spacers in the housing are only mounted at points at which there are mounting holes in the mainboard. Fasten the mainboard with the screws. Connect the plugs for the power supply, control panel and drives to the corresponding connections on the mainboard. Driver installation Install the drivers for the chipset. You may find the driver on the "Drivers & Utilities" CD.

Please refer to chapter "Drivers" for a description of installing drivers. A26361-D1875-Z120-1-6319, Edition: 1 English - 7 Interfaces and connectors The positions of the interfaces and connectors are shown on page "Cover". The components and connectors marked are not necessarily present on the mainboard. External ports The positions of the external ports are shown on page "Cover". PS/2 keyboard port, purple Serial interface, turquoise PS/2 mouse port, green Parallel port/Printer, burgundy LAN LAN connector Audio output (Line out), light green or Front* Audio input (Line in), light blue or Centre / Low* USB - Universal Serial Bus, black Microphone jack, pink or Surround* 1394 FireWire, grey * Switching over to 6-channel audio is carried out using a driver. LAN connector This mainboard has an ADMtek AN983B LAN controller. The LAN controller is equipped with a 2 KB transmission and receiving buffer (FIFO) and supports WOL function through Magic Packet. The LAN RJ45 connector has two LEDs (light emitting diodes). 2 LED 1 LED 2 lights green: flashes green: glows yellow: off: 1 A connection exists (e.g.

to a hub). Activity 100 Mbit/s 10 Mbit/s 8 - English A26361-D1875-Z120-1-6319, Edition: 1 External ports Audio ports and audio configuration Audio ports 1 2 3 Connecting loudspeakers The mainboard supports 2, 4 or 6-channel audio mode. For surround sound it is possible to connect up to 6 analogue speakers and use the digital S/PDIF output. Analogue 2-channel audio output With the 2-channel configuration the functions Line-In, Line-Out and MIC are available. MIC can be configured for operation at the front or rear of the PC (see "Audio configuration" section). 1 = Stereo L/R In 2 = Stereo L/R Out 3 = MIC In or no function (see the "Audio configuration" section) Analogue 2-channel audio output with headphones With the 2-channel configuration with headphones the functions Line-In, Headphones-Out and MIC are available. MIC can be configured for operation at the front or rear of the PC (see "Audio configuration" section). 1 = Stereo L/R In 2 = Headphones Out 3 = MIC In or no function (see the "Audio configuration" section) Analogue 4-channel audio output 1 = Surround L/R Out 2 = Stereo L/R Out 3 = MIC Analogue 6-channel audio output The centre and subwoofer channel can be interchanged. 1 = Surround L/R Out 2 = Stereo L/R Out 3 = centre and subwoofer channel i Depending on driver, software or hardware version and operating system the functions may differ from this presentation. If necessary, further information is provided in the respective help system as well as in the "Audio configuration" section.



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A26361-D1875-Z120-1-6319, Edition: 1 English - 9 Internal ports and connectors Audio configuration The mainboard supports 2, 4 or 6-channel audio mode. For surround sound it is possible to connect up to 6 analogue speakers and use the digital S/PDIF output (see "Audio ports" section). Depending on the operating system used, the audio driver and additionally installed software, you can configure the audio properties. i Drivers MIC can be configured for operation at the front or rear of the PC, if the case has a properly connected front MIC-In (see the "Pin assignment of internal ports" section, in the "Audio front panel" chapter). You can switch in the BIOS Setup or by using the software Sigmatel JackSharing, which is either automatically installed or may be found on the CD "Drivers & Utilities" supplied with your mainboard.

A corresponding driver must be installed for the 2, 4 or 6-channel audio mode. If the driver is not installed yet, proceed as described in the chapter "Add-on modules / Upgrading", in the section "Drivers". Software To configure MIC-In and fully utilize all audio-functions of your Mainboard, it may be necessary to install additional software. If the required software was not preinstalled, it can be found on the supplied "Drivers & Utilities" CD. BIOS In a current BIOS MIC-In can be configured for operation at the front or rear of the PC Additional information is contained in the "BIOS Setup" manual.

Internal ports and connectors The positions of the internal ports and connectors are shown on the Cover. Additional information on some ports is also provided here. Hard disk connection An ultra ATA/66, ultra ATA/100 or ultra ATA/133 hard disk must be connected with a cable especially designed for the ultra ATA/66, ultra ATA/100 or ultra ATA/133 mode. Connect the end of the cable marked with blue to the mainboard. 10 - English

A26361-D1875-Z120-1-6319, Edition: 1 Pin assignment of internal ports Pin assignment of internal ports The pin assignment of some internal connections is shown in English in the following. i Some of the following connectors may be optional! Front panel Watch the poling of the LEDs. The positive pole of the connection cables is often indicated with a coloured wire. Power On/Off 1) HD-LED 1) Power On LED 1) 2) Reset 1 2 Recovery Password 1) Cable is not included in the delivery scope 2) 2-pin or 3-pin connector possible Connection Reset Power On/Off HD LED Power On LED Password Recovery Note

Indicates the system state APM or ACPI (see chapter "APM and ACPI system status, energy-saving modes"). see "Settings with switches and jumpers" chapter see "Settings with switches and jumpers" chapter A26361-D1875-Z120-1-6319, Edition: 1 English - 11 Pin assignment of internal ports IDE interface 1 Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Signal Reset drive (low asserted) GND Data 7 (high asserted) Data 8 (high asserted) Data 6 (high asserted)

Data 9 (high asserted) Data 5 (high asserted) Data 10 (high asserted) Data 4 (high asserted) Data 11 (high asserted) Data 3 (high asserted) Data 12 (high asserted) Data 2 (high asserted) Data 13 (high asserted) Data 1 (high asserted) Data 14 (high asserted) Data 0 (high asserted) Data 15 (high asserted) GND

Key Pin 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 Signal DRQ (high asserted) GND I/O write (low asserted) GND I/O read (low asserted) GND I/O ready (high asserted) Cable select DAK (low asserted) GND IRQ (high asserted) not connected ADR 1 (high asserted) ATA 66 Detect (low asserted) ADR 0 (high asserted) ADR 2 (high asserted) CS 1 (low asserted) CS 3 (low asserted) IDE-LED (low asserted) GND Serial ATA (internal) 1 Pin 1 3 5 7 Signal GND Transmit data negative Receive data negative GND Pin 2 4 6 8 Signal Transmit data positive GND Receive data positive Key 12 - English

A26361-D1875-Z120-1-6319, Edition: 1 Pin assignment of internal ports Floppy interface 1 Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Signal GND FDHDIN (low asserted) GND not connected Key not connected GND Index (low asserted) GND Motor A Enable (low asserted) GND Drive B Select (low asserted) GND Drive A Select (low asserted) GND Motor B Enable (low asserted) GND Pin 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 Signal Step DIR (low asserted) GND Step Pulse (low asserted) GND Write Data (low asserted) GND Write Enable (low asserted) GND Track 0 (low asserted) GND

Write Protect (low asserted) GND Read Data (low asserted) GND Side 1 Select (low asserted) GND Disk Change (low asserted)

A26361-D1875-Z120-1-6319, Edition: 1 English - 13 Pin assignment of internal ports AUX audio in 1 Pin 1 2 3 4 Signal Left AUX audio input Analogue GND Analogue GND Right AUX audio input 1 2 Audio front panel Pin 1 3 5 7 9 Signal Micro input Micro bias Right line output not connected Left line output Pin 2 4 6 8 10 Signal Analogue GND Analogue VCC Right line return Key Left line return If the audio front panel is not used, you must plug jumpers on pin pairs 5/6 and 9/10. 14 - English A26361-D1875-Z120-1-6319, Edition: 1 Pin assignment of internal ports FireWire / IEEE 1394 1 Pin 1 3 5 7 9 Signal

TPA+ GND TPB+ +12 V Key Pin 2 4 6 8 10 Signal TPAGND TPB+12 V GND USB - dual channel (internal or external via special cable) 1 2 Pin 1 3 5 7 9 Signal VCC C Data negative C Data positive C GND Key Pin 2 4 6 8 10 Signal VCC D Data negative D Data positive D GND not connected 1 Fan 1 (CPU) (processor fan - only for 3 pin fans) Pin 1 2 3 Signal GND Controlled FAN voltage (0V, +6V, .

.. +12V, max. 1A) or fix Fan voltage (+12 V, max. 1 A) Fan sense A26361-D1875-Z120-1-6319, Edition: 1 English - 15 Pin assignment of internal ports Fan 2 (AUX) (system fan - only for 3 pin fans) Pin 1 2 3 Signal GND Fix Fan voltage (+12 V, max. 1 A) Fan sense 1 Power supply ATX 1 11 Pin 1 2 3 4 5 6 7 8 9 10 Signal +3.3V(P2V2P) +3.3V(P2V2P) GND +5V (VCC) GND +5V (VCC) GND Powergood (high asserted) +5V Auxiliary (VCC Aux) +12V (P12VP) Pin 11 12 13 14 15 16 17 18 19 20 Signal +3.3V(P2V2P) -12V (P12VN) GND PS on (low asserted) GND GND GND -5V (5PVN) +5V (VCC) +5V (VCC) Power supply ATX12 V 3 1 Pin 1 3 Signal GND +12 V Pin 2 4 Signal GND +12 V 16 - English A26361-D1875-Z120-1-6319, Edition: 1 Settings with switches and jumpers Your mainboard is optionally equipped with switches or jumpers. @@@@Even when you have switched off the device, parts (e.

g. @@@@Remove the old processor from the socket (3). @@@@Otherwise you must apply a very thin layer of heat conducting paste. Heat conducting pads can only be used once. @@@@Otherwise the retaining clips of the heat sink will be damaged.

@@@@@This behaviour is specified by Intel.



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@@@Buffered memory modules are not supported. ECC is not supported. @@@Insert the memory module into the location (1). @@@@The installation of such 3.

3 V AGP graphics cards can cause serious damage to the mainboard and the AGP graphics cards. Adding PCI cards Technical data: 32 bit / 33 MHz PCI slots 5 V and 3.3 V supply voltage 3.3 V auxiliary voltage 22 - English A26361-D1875-Z120-1-6319, Edition: 1 Adding PCI cards PCI bus interrupts - Selecting correct PCI slot i To achieve optimum stability, performance and compatibility, avoid the multiple use of ISA IRQs or PCI IRQ Lines (IRQ sharing). Should IRQ sharing be unavoidable, then all involved devices and their drivers must support IRQ sharing. PCI IRQ Lines connect AGP slots, PCI slots and onboard components to the interrupt controller. PCI IRQ Lines are permanently wired on the mainboard. Which ISA IRQs are assigned to the PCI IRQ Lines is normally automatically specified by the BIOS (see description in "BIOS Setup"). Monofunctional expansion cards: Standard AGP and PCI expansion cards require a maximum of one interrupt, which is called the PCI interrupt INT A. Expansion cards that do not require an interrupt can be installed in any desired slot.

Multifunctional expansion cards or expansion cards with integrated PCI-PCI bridge: These expansion cards require up to four PCI interrupts: INT A, INT B, INT C, INT D. How many and which of these interrupts are used is specified in the documentation provided with the card. The assignment of the PCI interrupts to the PCI IRQ Lines is shown in the following table: Onboard Controller PCI Interrupt Line USB 1,1 AC97 PCI slot USB 2,0 Modem 2nd 1st 3rd 1 1394 AGP 2 3 4 5 SATA 1 (A) 2 (B) 3 (C) 4 (D) 5 (E) 6 (F) 7 (G) 8 (H) E - F - G - H A - B - D - Audio LAN IDE C - C - D - A B - B C D A - C D A B - D A B C - A B C D - B C D E - Use the first PCI slots that have a single PCI IRQ Line (no IRQ sharing). If you must use another PCI slot with IRQ sharing, check whether the expansion card properly supports IRQ sharing with the other devices on this PCI IRQ Line. The drivers of all cards and components on this PCI IRQ Line must also support IRQ sharing. A26361-D1875-Z120-1-6319, Edition: 1 English - 23 Adding PCI cards Replacing the lithium battery In order to permanently save the system information, a lithium battery is installed to provide the CMOS-memory with a current. A corresponding error message notifies the user when the charge is too low or the battery is empty. The lithium battery must then be replaced. ! Incorrect replacement of the lithium battery may lead to a risk of explosion! The lithium battery may be replaced only with an identical battery or with a type recommended by the manufacturer. Do not throw lithium batteries into the household waste.

They must be disposed of in accordance with local regulations concerning special waste. Make sure that you insert the battery the right way round. The plus pole must be on the top! The lithium battery holder exists in different designs that function in the same way. 2 3 4 2 1 3 Press the locking lug in the direction of the arrow; the battery jumps somewhat out of the holder (1). Remove the battery (2).

Push the new lithium battery of the identical type into the holder (3) and press it downward until it engages (4). 24 - English A26361-D1875-Z120-1-6319, Edition: 1 BIOS update BIOS update When should a BIOS update be carried out? Fujitsu Siemens Computers makes new BIOS versions available to ensure compatibility to new operating systems, new software or new hardware. In addition, new BIOS functions can also be integrated. A BIOS update should always also be carried out when a problem exists that cannot be solved with new drivers or new software. Where can I obtain BIOS updates? The BIOS updates are available on the Internet at www.fujitsu-siemens.de/mainboards.

How does a BIOS update work? You have two ways of doing this: 1. BIOS update under DOS with bootable BIOS update floppy disk - brief description Download the update file from our website to your PC. Insert an empty floppy disk (1.44 MB). Run the update file (e.g. 1675103.EXE).

A bootable update floppy disk is created. Leave this floppy disk in the drive. Restart the PC. Follow the instructions on screen. i Detailed information on the BIOS update under DOS is provided in the manual on "BIOS Setup" ("Drivers & Utilities" CD). 2. BIOS update under Windows with DeskFlash utility A BIOS update can also be carried out directly under Windows with the DeskFlash utility. DeskFlash is contained on the "Drivers & Utilities" CD (under DeskUpdate). A26361-D1875-Z120-1-6319, Edition: 1 English - 25 BIOS Recovery - Recovering System BIOS BIOS Recovery - Recovering System BIOS i All BIOS settings are reset to the default values. Open the casing as described in the operating manual.

Set the switch for "Restore system BIOS" to ON. Close the casing as described in the operating manual. Insert a BIOS update floppy disk and start the PC. Note the signals issued from the loudspeaker. You have successfully restored the BIOS if you hear the signal sequence "short-shortlonglong" and the diskette access indicator is dark.

This can take a few minutes. Open the casing as described in the operating manual. Set the switch for "Restore system BIOS" to OFF. Close the casing as described in the operating manual. Remove the floppy disk from the drive.

Start the PC and invoke BIOS Setup. Select the menu item Reset Configuration in the menu Advanced and change the setting to Yes. Save the change and terminate BIOS Setup. The BIOS recovery has now been completed. The system restarts. i Detailed information on the BIOS recovery is contained in the manual "BIOS Setup" ("Drivers & Utilities" CD). 26 - English A26361-D1875-Z120-1-6319, Edition: 1 Microcode Update Microcode Update What is a microcode update? As there are no drivers for processors, Intel offers the possibility from the P6 family (Pentium Pro) on to update the command set (microcode) of the processor. This enables minor errors to be corrected and the performance to be increased. To guarantee the best possible performance and error-free operation, Intel recommends updating the microcode for every new processor. Intel refers to the use of the processor without microcode updates as operation outside the specifications.

Safety for processor on Fujitsu Siemens Computers mainboards If the processor uses an old or incorrect microcode, error-free operation cannot be ensured. Fujitsu Siemens Computers has therefore implemented a function on its mainboards that interrupts the booting process if no suitable microcode is available for the installed processor.



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The output error message is Patch for installed CPU not loaded. Please run the bios flash update diskette. This message appears until the microcode update has been carried out. If the computer is nevertheless operated without a microcode update, error-free operation is not ensured. When should a microcode update be carried out? A microcode update should be carried out after the installation of a new processor. In contrast to the BIOS update, only an updated version of the processor command set is stored. The system BIOS remains unaffected by this. Microcode update under DOS with bootable microcode update floppy disk - brief description Download the update file from our website to your PC.

Insert an empty floppy disk (1.44 MB). Run the update file under DOS (e.g. 1675101.

EXE). A bootable update floppy disk is created. Leave the floppy disk in the drive. Restart the PC. Follow the instructions on screen.

To determine whether the latest microcode update has been loaded, the so-called Patch-ID of the processor can be read out. Press the F1 key in the BIOS Setup. The entry CPU / Patch ID is shown on the displayed information page. A list with the current processors and the related Patch-IDs is available on the

Internet. If the processor is not recognised, you also require the microcode update tool for processors of the P6 family. A26361-D1875-Z120-1-6319, Edition: 1 English - 27 Drivers Drivers Only when no drivers are installed on your system, or you want to update these, proceed as follows: Insert the CD "Drivers & Utilities Collection" into the CD-ROM drive. If the CD does not start automatically, run the START.EXE programme in the main directory of the CD. Select DeskUpdate - Fully automatic installation. Follow the instructions on screen.

28 - English A26361-D1875-Z120-1-6319, Edition: 1 Annex Electrical Properties Loadability for connections and fuses i 1 Make sure that the connected devices do not overload the connections. Fuse no. Fuse 750 mA Connection Fan1, Fan2 Keyboard Mouse Game port USB port A USB port B USB port C USB port D USB port E USB port F USB port G USB port H Maximum loadability 1000 mA each Not specified Not specified Not specified 500 mA 2 2000 mA 3 2000 mA 500 mA The fuses on this mainboard can be used several times (polyfuses). Shortly after the error state has been eliminated, the fuses reset to the original state. Mainboard current requirement You require a Pentium4 power supply unit as per the ATX12V specification for this mainboard. If you do not have a PC from Fujitsu Siemens Computers, make sure that the power supply unit provides the required amperages. Resource ATX12V power supply ATX12V power supply ATX12V power supply ATX12V power supply Standby voltage of power supply unit Voltage +12 V -12 V +5,0 V +3,3 V +5.0 V SB Maximum difference $\pm 5\%$ $\pm 10\%$ $\pm 5\%$ $\pm 5\%$ $\pm 5\%$ Max. current 12,0 A 0,05 A 8 A 12 A 2 A The specifications apply to the onboard components and represent the least favourable case. In addition, at least 350 mA is required for PCI on 3.

3 V, and 500 mA per connected device for USB on 5 V. 29 - English A26361-D1875-Z120-1-6319, Edition: 1 APM and ACPI system status, energy-saving modes APM and ACPI system status, energy-saving modes System status ACPI Status* APM Status Power LED Power consumption Wake-up time Normal operation Simple energysaving mode Maximum energysaving mode ** "Save to DRAM" Maximum energysaving mode ** "Save To Disk" "Soft Off" Mechanically Off * ** G0 G1 S0 S1 S3 On Standby On flashin g Normal Almost like normal RAM, wake-up components Almost immediately approx. 5 s S4 Off Wake-up components Nearly zero Zero approx. 25 s G2 G3 S5 Soft Off Off approx. 35 s G = Global status; S = System status The power supply unit must provide sufficiently loadable 5 V standby voltage.

To use the WOL functionality the power supply must provide a 5 V auxiliary voltage (5V SB) of at least 1 A. 30 - English A26361-D1875-Z120-1-6319, Edition: 1 Mainboard Revision and BIOS Version Mainboard Revision and BIOS Version The compatibility, e.g. with new processors, can be independent of the BIOS version or the revision status of the mainboard used. The CPU and BIOS compatibility lists are available on the Internet at www.fujitsu-siemens.de/mainboards.

Mainboard Revision The revision status of the mainboard exactly identifies which mainboard you have. It is indicated on a sticker on the edge of the mainboard: D1875-C22 GS 1 05618476 Example Mainboard-Revision BIOS version The BIOS version can be displayed in the BIOS Setup. Press F2 during booting to open the BIOS Setup. Press F1 . The BIOS version is specified on the displayed information page under the entry BIOS Release. A26361-D1875-Z120-1-6319, Edition: 1 English - 31 Error messages This chapter contains error messages generated by the mainboard. Available CPUs do not support the same bus frequency - System halted! Memory type mixing detected Non Fujitsu Siemens Memory Module detected - Warranty void There are more than 32 RDRAM devices in the system Check whether the system configuration has changed. If necessary, correct the settings.

BIOS update for installed CPU failed This message appears if the microcode update required for the connected processor is not contained in the system BIOS. Boot the system with the inserted Flash BIOS floppy disk. Abort the normal Flash BIOS update by answering the question about whether you want to perform the update with n To carry out the Flash BIOS update for the processor, enter: flashbio/p6 Check date and time settings The system date and time are invalid. Set the current date and time in the Main menu of the BIOS Setup. CPU ID 0x failed Switch the server off and on again. If the message is still displayed, go into the BIOS Setup and set the corresponding processor to Disabled in the Server - CPU Status menu; please contact your sales outlet or customer service centre. CPU mismatch detected You have replaced the processor or changed the frequency setting. As a result, the characteristic data of the processor have changed. Confirm this change by running the BIOS Setup and exiting it again. Diskette drive A error Diskette drive B error Check the entry for the diskette drive in the Main menu of the BIOS Setup.

@@@ Call BIOS Setup and switch to the Advanced menu. Select the menu item Reset Configuration Data and change the setting to Yes. Save the change and terminate BIOS Setup. Reboot the device. Keyboard controller error Connect another keyboard or another mouse.

If the message is still displayed, please contact your sales outlet or customer service centre. Keyboard error Check that the keyboard is connected properly.

Keyboard error nn nn Stuck Key Release the key on the keyboard (nn is the hexadecimal code for the key).



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A26361-D1875-Z120-1-6319, Edition: 1 English - 33 Error messages Missing or invalid NVRAM token Switch the device off and on again. If the message is still displayed, please contact your sales outlet or customer service centre.

Monitor type does not match CMOS - RUN SETUP Correct the entry for the monitor type in the Main menu of the BIOS Setup. On Board PCI VGA not configured for Bus Master In the BIOS Setup, in the Advanced menu, submenu PCI Configuration, set the Shared PCI Master Assignment entry to VGA. One or more RDRAM devices are not used One or more RDRAM devices have bad architecture/timing One or more RDRAM devices are disabled Contact your system administrator or contact our customer service centre. Operating system not found Check the entries for the hard disk drive and the floppy disk drive in the Main menu and the entries for Boot Sequence submenu of the BIOS Setup. Parity Check 1 Parity Check 2 Switch the device off and on again. If the message is still displayed, please contact your sales outlet or customer service centre. Previous boot incomplete - Default configuration used By pressing function key F2 you can check and correct the settings in BIOS Setup. By pressing function key F1 the system starts with incomplete system configuration. If the message is still displayed, please contact your sales outlet or customer service centre. Real time clock error Call the BIOS Setup and enter the correct time in the Main menu.

If the message is still displayed, please contact your sales outlet or customer service centre. Service Processor not properly installed The server management controller has not been correctly installed. If the message is still displayed, please contact your sales outlet or customer service centre. Storage Extension Group = xy Configuration error, x Storage Extensions(s) found, configured are y SE(s). Device List: k1, k2 ... The specified number of storage expansion units (SEs) in the BIOS Setup menu Server - Storage Extensions - Number of connected SE is incorrect. Check how many SEs within the group are connected at the server and change the setting in BIOS Setup. Check whether you have assigned the same device ID twice.

xy = Group number x = Number of SEs found on the communication bus y = Number of SEs entered in Number of connected SE k1, k2 ... = Device ID of the storage extensions found 34 - English A26361-D1875-Z120-1-6319, Edition: 1 Error messages System battery is dead - Replace and run SETUP Replace the lithium battery on the mainboard and redo the settings in the BIOS Setup. System Cache Error - Cache disabled Switch the device off and on again.

If the message is still displayed, please contact your sales outlet or customer service centre. System CMOS checksum bad - - Default configuration used Call the BIOS Setup and correct the previously made entries or set the default entries. System Management Configuration changed or Problem occurred A system fan or system sensor has failed. Check the hardware operation. System timer error Switch the device off and on again.

If the message is still displayed, please contact your sales outlet or customer service centre. Uncorrectable ECC DRAM error DRAM Parity error Unknown PCI error Switch the device off and on again. If the message is still displayed, please contact your sales outlet or customer service centre. Verify CPU

frequency selection in Setup The frequency setting for the processor is invalid. Correct the BIOS Setup and the setting. A26361-D1875-Z120-1-6319, Edition:

1 English - 35 Glossary The technical terms and abbreviations given below represent only a selection of the full list of common technical terms and abbreviations. Not all technical terms and abbreviations listed here are valid for the described mainboard. ACPI AC'97 AGP AMR AOL APM ASF ATA BIOS BMC CAN CPU CNR C-RIMM DIMM ECC ECP EPP EEPROM FDC FIFO FSB FWH GMCH GPA HDD I2 C IAPC Advanced Configuration and Power Management Interface Audio Codec '97 Accelerated Graphics Port Audio Modem Riser Alert On LAN Advanced Power Management Alert Standard Format Advanced Technology Attachment Basic Input Output System Baseboard management controller Controller Area Network Central Processing Unit Communication Network Riser Continuity Rambus Inline Memory Module Dual Inline Memory Module Error Correcting Code Enhanced Capability Port Enhanced Parallel Port Electrical Erasable Programmable Read Only Memory Floppy disk controller First-In First-Out Front Side Bus Firmware Hub Graphics and Memory Controller Hub Graphics Performance Accelerator Hard Disk Drive Inter Integrated Circuit Instantly Available Power Managed Desktop PC Design ICH IDE IPSEC ISA LAN LSA MCH MMX P64H PCI PSB PSU PXE RAID RAM RAMDAC RDRAM RIMM RTC S/PDIF SATA SB SDRAM SGRAM SIMD SMBus SVGA TEMP USB VGA WOL I/O Controller Hub Intelligent Drive Electronics Internet Protocol Security Industrial Standard Architecture Local Area Network LAN Desk Service Agent Memory Controller Hub MultiMedia eXtension PCI64 Hub Peripheral Component Interconnect Processor System Bus Power Supply Unit Preboot eXecution Environment Redundant Array of Independent Disks Random Access Memory Random Access Memory Digital Analogue Converter Rambus Dynamic Random Access Memory Rambus Inline Memory Module Real Time Clock Sony/Philips Digital Interface Serial ATA (Advanced Technology Attachment) Soundblaster Synchronous Dynamic Random Access Memory Synchronous Graphic Random Access Memory Streaming Mode Instruction (Single Instruction Multiple Data) System Management Bus Super Video Graphic Adapter Temperature Universal Serial Bus Video Graphic Adapter Wake On LAN A26361-D1875-Z120-1-6319, Edition: 1 English - 36 .



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