

Fujitsu D3041-A Mainboard DDR3 RAM Quick Setup Guide

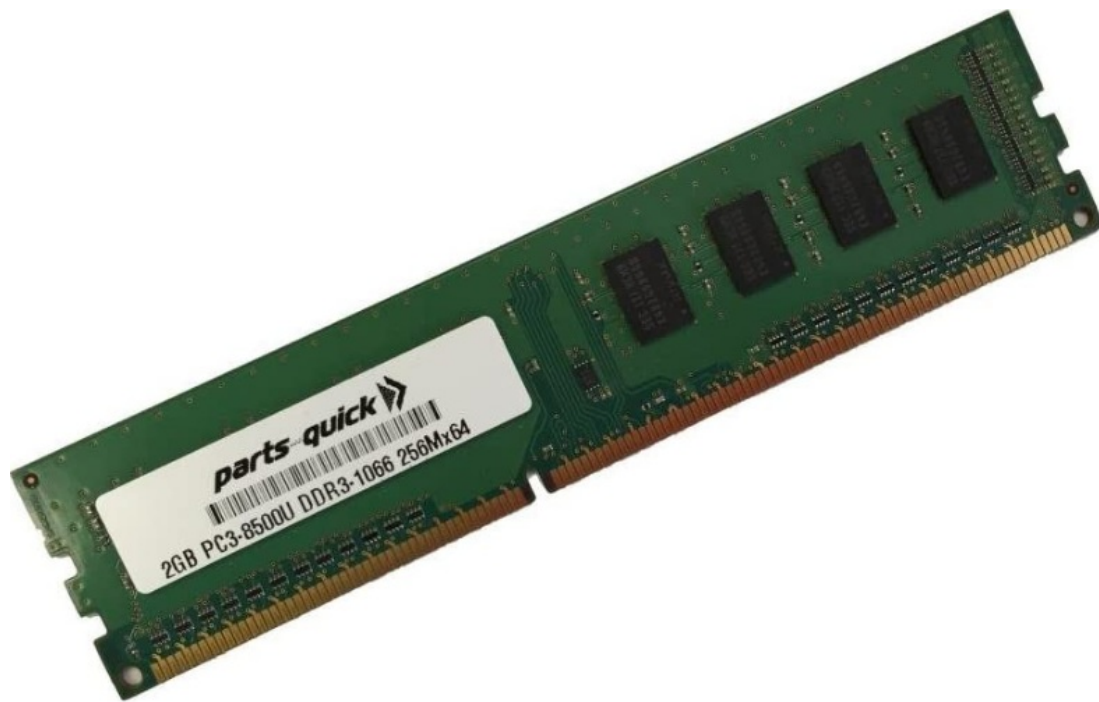
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Fujitsu D3041-A Mainboard DDR3 RAM



Introduction

Congratulations, you have decided to buy an innovative Fujitsu product. The latest information about our products, useful tips, updates, etc. is available from our website: "<http://ts.fujitsu.com>"

For automatic driver updates, go to: "<http://support.ts.fujitsu.com/support/index.html>"

Should you have any technical questions, please contact:

- our Hotline/Service Desk (see the Service Desk list or **visit:** "<http://ts.fujitsu.com/support/servicedesk.html>")
- Your sales partner
- Your sales office

We hope you really enjoy using your new Fujitsu system.

Brief description of the mainboard

Intel, Pentium, and Celeron are registered trademarks of Intel Corporation, USA. Windows 7, Windows Vista and Windows XP are registered trademarks of Microsoft Corporation. PS/2 and OS/2 Warp are registered trademarks of International Business Machines, Inc. All other trademarks used in this document are trademarks or registered trademarks of their respective owners and are recognized as being protected. Copyright © Fujitsu Technology Solutions GmbH 2010 All rights, including rights of translation, reproduction by printing, copying, or similar methods, of the whole document or parts thereof, are reserved. Offenders will be liable to prosecution and payment of damages. All rights reserved, including rights created by patent grant or registration of a utility model or design. Delivery is subject to availability. We reserve the right to make technical modifications to the product.

Information about boards

Be sure to observe the following for boards with ESD:

- You must always discharge static build-up (e.g. by touching a grounded object) before working with the board.

- The equipment and tools you use must be free of static charge.
- Remove the power plug from the main supply before inserting or removing the boards.
- Always hold boards by their edges.
- Never touch connector pins or conductors on the board.

An overview of the features is provided in the datasheet.

Special features

Your mainboard is available in different configuration levels. Depending on the configuration, your mainboard will be equipped with or provide support for certain features. This manual describes the most important properties of this mainboard. Additional information on mainboards is provided in the manual “**Basic information on Mainboard**” on the “**User Documentation**” or “**OEM Mainboard**” CD, or on the Internet.

Interfaces and connectors

The location of the interfaces and connectors of your mainboard is specified at the beginning of the manual. The components and connectors marked are not necessarily present on the mainboard.

External ports

The location of the external connections of your mainboard is specified at the beginning of the manual.

The external USB ports on the back of the computer support a combined maximum load of 2A.

Installing/removing the processor

Disconnect the system from the mains voltage before performing any of the tasks described below. Details are contained in the operating manual of your system.

Technical data

A current list of the processors supported by this mainboard is available on the Internet at:
[“http://ts.fujitsu.com/mainboards”](http://ts.fujitsu.com/mainboards).

Never touch the underside of the processor. Even minor soiling such as grease from the skin can impair the processor’s operation or destroy the processor. Place the processor in the socket with extreme care, as the spring contacts of the socket are very delicate and must not be bent. If one or more spring contacts are bent, on no account insert the processor as it may be damaged by doing so. Please contact the responsible vendor.

Procedure

The processor socket is covered with a protective cap to protect the spring contacts. In the event of a warranty case, the mainboard can only be taken back by Fujitsu Technology Solutions with the protective cap secured!

- Remove the heat sink.
- Press down the lever and unhook it.
- Fold up the frame.
- Hold the processor between your thumb and index finger and insert it into the socket **(b)** so that the marking of the processor is aligned with the marking on socket **(a)**.

- Press the lever down until it is hooked in again.
- Remove the protective cap and keep it.

Please note that, depending on the heat sink used, different heat sink mounts are required on the mainboard.

- Depending on the configuration variant, you must pull a protective foil off the heat sink or coat the heat sink with heat-conducting paste before fitting it.
- Secure the heat sink – depending on the model – with four screws or push it into the mounts.

Installing/removing main memory

Technical data

A current list of the memory modules recommended for this mainboard is available on the Internet at: “<http://ts.fujitsu.com/mainboards>“. At least one memory module must be installed. Memory modules with different memory capacities can be combined.

- You may use only unbuffered 1.5 V memory modules without ECC. DDR3 memory modules must comply with the PC3-8500 or PC3-10600 specification.
- With a memory configuration of 8 Gbytes, the visible and usable main memory may be reduced to 7.25 Gbytes (depending on the system configuration).

The installation/removal is described in the “**Basic information on mainboard**” manual.

PCI bus interrupts – Selecting the correct PCI slot

Extensive information on this section is contained in the manual “**Basic Information on Mainboard**”.

To achieve optimum stability, performance, and compatibility, avoid the multiple uses 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.

Which ISA IRQs are assigned to the PCI IRQ Lines is normally automatically specified by the BIOS (see “**BIOS Setup**” description).

Monofunctional expansion cards

PCI/PCI Express 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 IRQ Lines is shown in the following table:

Mechanical slot

Use first PCI/PCI Express slots that have a single PCI IRQ Line (**no IRQ sharing**). If you must use another PCI/PCI Express 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.

BIOS Update

When should a BIOS update be performed?

Fujitsu Technology Solutions makes new BIOS versions available to ensure compatibility with new operating systems, new software, or new hardware. In addition, new BIOS functions can be integrated. A BIOS update should also always be performed if there is a problem that cannot be solved using new drivers or new software.

Where can I obtain BIOS updates?

Go to "<http://ts.fujitsu.com/mainboards>" to find the BIOS updates.

BIOS update under Windows

A BIOS update can also be carried out directly from Windows.

- Download the update file for Windows from our website to your PC.
- Run the update file (**e.g. 3041103_WIN.EXE**).
- Follow the on-screen instructions.

BIOS update using a USB stick

- Make sure you have a bootable USB stick available.
- Download the update file for bootable USB sticks from our website to your PC.
- Run the file (**e.g. 3041103_USB.EXE**) and follow the on-screen instructions.
 - The data required for the BIOS update will be written to the USB stick.
- Restart the PC and press **F12** to call up the Boot menu.
- Select the USB stick as the boot device.
- Follow the on-screen instructions.

FAQ's

What is the maximum amount of DDR3 RAM that the Fujitsu D3041-A Mainboard can support?

The Fujitsu D3041-A Mainboard supports a maximum of 32GB of DDR3 RAM.

What is the maximum speed of DDR3 RAM that the Fujitsu D3041-A Mainboard supports?

The Fujitsu D3041-A Mainboard supports DDR3 RAM speeds of up to 1600MHz.

How many DDR3 RAM slots are there on the Fujitsu D3041-A Mainboard?

The Fujitsu D3041-A Mainboard has four DDR3 RAM slots.

What type of DDR3 RAM is compatible with the Fujitsu D3041-A Mainboard?

The Fujitsu D3041-A Mainboard supports DDR3 ECC and non-ECC unbuffered DIMMs.

Can I mix different sizes and speeds of DDR3 RAM on the Fujitsu D3041-A Mainboard?

It is not recommended to mix different sizes and speeds of DDR3 RAM on the Fujitsu D3041-A Mainboard. However, if you must do so, ensure that the RAM modules are compatible with each other and follow the manufacturer's guidelines.

Does the Fujitsu D3041-A Mainboard support dual-channel DDR3 RAM?

Yes, the Fujitsu D3041-A Mainboard supports dual-channel DDR3 RAM.

What is the voltage requirement for DDR3 RAM on the Fujitsu D3041-A Mainboard?

The Fujitsu D3041-A Mainboard supports DDR3 RAM with a voltage of 1.5V.

Can I use DDR2 RAM on the Fujitsu D3041-A Mainboard?

No, the Fujitsu D3041-A Mainboard only supports DDR3 RAM. DDR2 RAM is not compatible with this motherboard.

What is the Fujitsu D3041-A Mainboard?

The Fujitsu D3041-A is a mainboard designed for use in desktop computers. It is commonly used in Fujitsu-branded computers, but can also be used in other systems.

What processor socket does the Fujitsu D3041-A Mainboard use?

The Fujitsu D3041-A Mainboard uses the LGA775 socket, which is compatible with Intel Core 2 Duo, Pentium Dual-Core, Pentium D, Pentium 4, and Celeron processors.

What type of memory does the Fujitsu D3041-A Mainboard support?

The Fujitsu D3041-A Mainboard supports DDR2 memory, with a maximum capacity of 8GB. It has four DIMM slots and supports dual-channel memory.

What expansion slots does the Fujitsu D3041-A Mainboard have?

The Fujitsu D3041-A Mainboard has one PCIe x16 slot, one PCIe x1 slot, and two PCI slots. It also has an integrated Intel Graphics Media Accelerator 3100.

What are the dimensions of the Fujitsu D3041-A Mainboard?

The Fujitsu D3041-A Mainboard has a form factor of Micro-ATX (244 x 244 mm).

What are some of the other features of the Fujitsu D3041-A Mainboard?

The Fujitsu D3041-A Mainboard has integrated audio (Realtek ALC883), Gigabit Ethernet (Intel 82566DM), and SATA II support (4 ports). It also has various USB 2.0 and PS/2 ports for peripherals.

Is the Fujitsu D3041-A Mainboard still available for purchase?

It is possible to find the Fujitsu D3041-A Mainboard for purchase from some retailers, but it is an older model and may not be widely available. It is also important to note that its compatibility with newer hardware and software may be limited.

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