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# Mainboard D1562/D1561

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".



The programme *Acrobat Reader* must be installed to be able to open the manuals. You will find the programme on the CD in the 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:



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.

## 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 shielded 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.

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 any other components, for example EMI spring contacts.

Remove the plug from the mains outlet so that system and mainboard are totally disconnected from the mains voltage.

Be careful with the locking mechanisms (catches, centring pins etc.) when you replace the mainboard or components on it, for example memory modules or processors.

Never use sharp objects (screwdrivers) for leverage.



Boards with electrostatic sensitive devices (ESD) are identifiable by the label shown.

When you handle boards fitted with ESDs, you must, under all circumstances, observe the following:

- You must always discharge static build up (e.g. by touching a grounded object) before working.
- The equipment and tools you use must be free of static charges.
- Remove the power plug from the mains supply before inserting or removing boards containing ESDs.
- Always hold boards with ESDs by their edges.
- Never touch pins or conductors on boards fitted with ESDs.

## List of features

Onboard features	D1562-A	D1561-A
Chipset	Intel® 865G	Intel® 865G
Board size	µATX	µATX
VGA	✓	✓
Audio / 6-channel / S/PDIF 5.1	✓ / - / ✓	✓ / - / ✓
Buzzer / int. Speaker Support	- / ✓	- / ✓
LAN 1 Gigabit / 100Mbit / 10 Mbit	✓ / ✓ / ✓	- / ✓ / ✓
LAN / with Alert-on-LAN / WoL / Boot	✓ / - / ✓ / ✓	- / - / ✓ / ✓
SATA / ATA / RAID	✓ / ✓ / -	✓ / ✓ / -
FireWire™ / HI-SPEED USB 2.0	- / ✓	- / ✓
Fan monitoring PSU** / CPU / AUX1 / AUX2	✓ / ✓ / ✓ / -	- / - / - / -
Fan control PSU** / CPU / AUX1 / AUX2	✓ / ✓ / ✓ / -	- / - / - / -
Temperature monitoring CPU/ONB1/ONB2/OFFB	✓ / ✓ / - / ✓	- / - / - / -
SmartCard Reader Support (USB / serial)	✓ / -	- / -
Fujitsu Siemens Computers Keyboard Power Button Support	✓	✓

### Special Onboard features

Silent Fan / Silent Fan LT	✓ / -	- / -
System Guard / Silent Drives	✓ / ✓	- / ✓
Recovery BIOS / Desk Update / Multi Boot	✓ / ✓ / ✓	✓ / ✓ / ✓
HDD Password / USB Security	✓ / ✓	- / ✓
Logo Boot / Intel On Screen Branding	✓ / ✓	✓ / ✓

### Internal ports

DIMM slots (DDR 400 SDRAM, PC3200)	4	4
AGP Slot (4/8x, 32 bit, 66 MHz, 1.5 V)	1	1
PCI slot (32 bit, 33 MHz, 5 V and 3.3 V)	3	3
CNR Slot (Type A, AC'97 only)	-	-
Serial ATA interface (150 Mbyte/s) / ATA interface (100 Mbyte/s) / Floppy interface	2 / 2 / 1	2 / 2 / 1
S/PDIF 5,1 (digital Audio)* OUT / IN	1 / -	1 / -
CD / AUX audio input	1 / -	1 / -
Front panel Audio (9-pin for headphone, microphone)	1	1

Internal ports (continued)	D1562-A	D1561-A
FireWire™ * (9-Pin, Intel standard header)	-	-
USB Ports* (2.0, ~480 MB/s)	4	4
Serial Ports* (FIFO, 16550 compatible)	1	1
Fan Connectors PSU** / CPU / AUX1 / AUX2	1 / 1 / 1 / -	- / 1 / 1 / -
SMBus Connector* (Case Temperature)	1	-
Cover monitoring* (Casing open)	1	-
Power Connectors ATX / ATX12V / AGP Pro	1 / 1 / -	1 / 1 / -

### External ports

VGA	1	1
Audio Mic. In / Line in / Line out (or configurable with driver)	1 / 1 / 1	1 / 1 / 1
S/PDIF 5.1 (digital audio, cinch)* OUT / IN	- / -	- / -
LAN (RJ-45)	1	1
PS/2 mouse/keyboard	1 / 1	1 / 1
FireWire™ * (6-Pin, IEEE 1394 port)	-	-
USB Ports (2.0, ~480 MB/s)	4	4
Serial Ports (RS232, FIFO, 16550 compatible)	1	1
Parallel Port (EPP/ECP)	1	1

\* for use with internal devices or optional Front or Rear panel

\*\* not supported by standard power supplies

Onboard features	D1562-C*	D1561-C*
Chipset	Intel® 865G	Intel® 865G
Board size	µATX	µATX
VGA	✓	✓
Audio / 6-channel / S/PDIF 5.1	✓ / - / ✓	✓ / - / ✓
Buzzer / int. Speaker Support	- / ✓	- / ✓
LAN 1 Gigabit / 100Mbit / 10 Mbit	✓ / ✓ / ✓	✓ / ✓ / ✓
LAN / with Alert-on-LAN / WoL / Boot	✓ / - / ✓ / ✓	- / - / ✓ / ✓
SATA / ATA / RAID	✓ / ✓ / -	✓ / ✓ / -
FireWire™ / HI-SPEED USB 2.0	- / ✓	- / ✓
Fan monitoring PSU** / CPU / AUX1 / AUX2	✓ / ✓ / ✓ / -	- / - / - / -
Fan control PSU** / CPU / AUX1 / AUX2	✓ / ✓ / ✓ / -	- / ✓ / - / -
Temperature monitoring CPU/ONB1/ONB2/OFFB	✓ / ✓ / - / ✓	✓ / - / - / -
SmartCard Reader Support (USB / serial)	✓ / -	- / -
Fujitsu Siemens Computers Keyboard Power Button Support	✓	✓

\* Supports new Intel Pentium processors with 1 Mbyte Second-level-cache

### Special Onboard features

Silent Fan / Silent Fan LT	✓ / -	- / ✓
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HDD Password / USB Security	✓ / ✓	- / ✓
Logo Boot / Intel On Screen Branding	✓ / ✓	✓ / ✓

### Internal ports

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CNR Slot (Type A, AC'97 only)	-	-
Serial ATA interface (150 Mbyte/s) / ATA interface (100 Mbyte/s) / Floppy interface	2 / 2 / 1	2 / 2 / 1
S/PDIF 5,1 (digital Audio)* OUT / IN	1 / -	1 / -
CD / AUX audio input	1 / -	1 / -
Front panel Audio (9-pin for headphone, microphone)	1	1