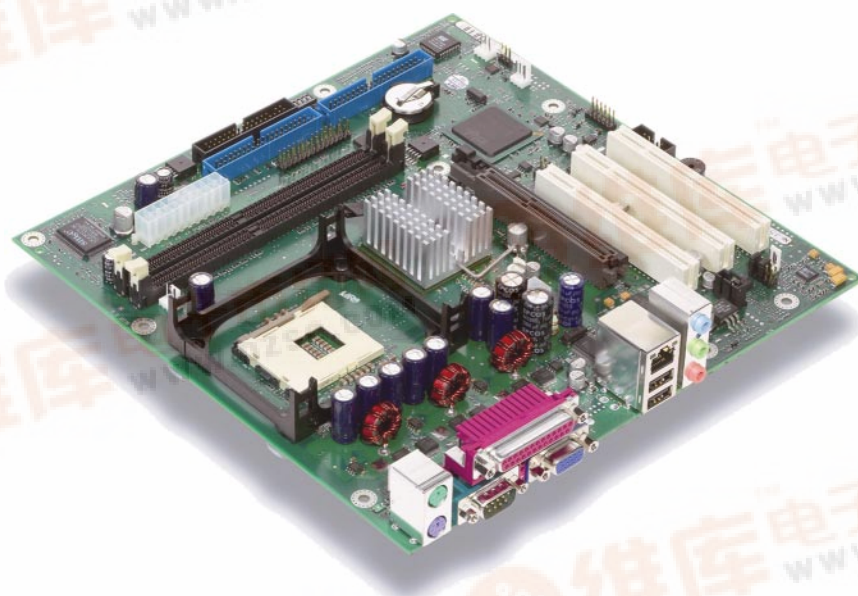


Data Sheet · Mainboard D1520 · Issue May 2003

Mainboard D1520

Intel 845GE Chipset for
DDR333 SDRAM (PC2700) Memory and
Intel Pentium 4 Processors (533 MHz FSB)



value

Intel[®] PRO
Network Connections

Intel[®]
extreme
graphics

Data Sheet

Chipset:

Intel 845GE

Processors:

Intel[®] Pentium[®] 4 Processors,
mPGA 478 with 533/400 MHz
FSB

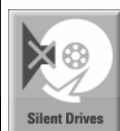
Intel[®] Celeron[®] Processors,
mPGA 478 with 400 MHz FSB

Memory:

DDR333 SDRAM (PC2700)
DDR266 SDRAM (PC2100)

Product Features:

Graphics on board
Audio on board
USB 2.0 on board
LAN on board



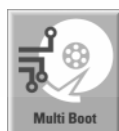
Silent Drives



Recovery BIOS



Desk Update



Multi Boot



USB Security

Board Size µATX: 9.6" x 9.6" (243.8 x 243.8 mm)

Chipset Intel® 845GE

Memory

2 DIMM Sockets (2.5 V), 32 MB - 2 GB, 184 Pin,
DDR333/266 SDRAM (PC2700/2100), unbuffered, no ECC
(For details on recommended RAM, please refer to our website)

Processors

Intel® Pentium® 4 Processors, mPGA 478, 533/400 MHz FSB
Intel® Celeron® Processors, mPGA 478, 400 MHz FSB
(For details on processors supported, please refer to our website)

Power Specification

ATX 12 V Power Supply required
Support for Soft-Off Power Supplies
5 V and 3.3 V Supply Voltage on PCI Slots
3.3 V Auxiliary Supply Voltage on PCI Slots (Wake-Up Function)
On board CPU Voltage Regulator, 5 V / 2 A Auxiliary Power
required for USB Wake-Up from Save-to-RAM, Save-to-Disk

Power Supply Requirements

for onboard components (worst case)

Source	Voltage	Maximal variation	Mainboard current (Maximal)
Main Power Supply	+ 12 V	± 5 %	8 A
	- 12 V	± 10 %	0.05 A
	+ 5 V	± 5 %	0.9 A
	+ 3.3 V	± 5 %	3.4 A
Aux. Power Supply	+ 5 V	± 5 %	2 A

BIOS

Phoenix NuBIOS V4.06 modified and adapted by
Fujitsu Siemens Computers
SM-BIOS (DMI), BIOS Update via disk, Quick Boot, Logo Boot
Quiet Boot (Silent Screen), Plug & Play, Automatic DRAM and
PCI Configuration, Advanced Power Management
ACPI S4 (Save-to-Disk), ACPI S3 (Save-to-RAM)

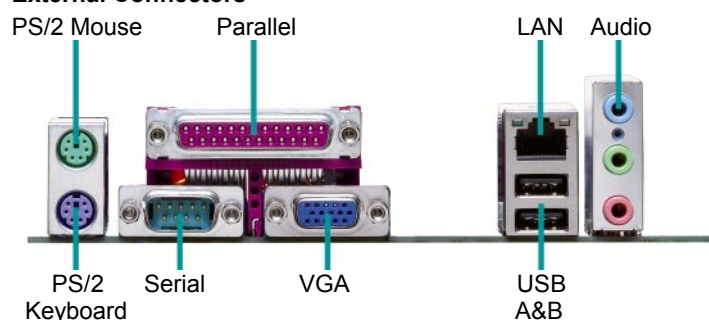
Security Features

Recovery BIOS, System and BIOS Password, Boot and/or Write
Protection for Floppy Disk Drive, Boot Sequence Control for each
Floppy and IDE Drive, Serial and Parallel Port Access Protection,
Boot Sector Virus Warning, Write Protection for Flash BIOS

Special Features

Silent Drives Noise reduction for optical and hard disk drives
Recovery BIOS Restores a corrupted BIOS
Desk Update Simple driver update with DU CD
Multi Boot Comfortable boot from any boot device USB
Security Access protection with Fujitsu Siemens
Computers Memory Bird

External Connectors



Graphics

Integrated Intel® Extreme Graphics, 2D/3D Graphics Controller,
256 Bit, 120 Hz max. Refresh Rate, 2047x1536x16 max. Resolution,
350 MHz RAMDAC, Dynamic Video Memory Technology,
upgradeable with AGP Graphics Card or ADD Cards to add support
for digital displays or TV Out, DDC 2B Support for Monitor Detection

Audio

Analog Devices AD1980, AC '97 Audio, 6-channel Surround
Sound, HW 3D Stereo Enhancement, SW Soundblaster
Emulation (Win98/WinME/ Win2000) Support, SW Wavetable
Synthesis Support, S/PDIF 5.1

LAN

Intel® LAN Ethernet Controller 82562 ET with 10/100 Mbit/s,
Wake-on-LAN (WoL) by interesting Packets, Link Status Change
and Magic Packet™

IDE

2 ATA 100 Interfaces, up to 4 IDE Drives,

Versions

D1520-A

Features

Chipset	Intel 845GE
Board Size	µATX
VGA	✓
Audio / 6 channel / S/PDIF 5.1	✓ / ✓ / ✓
Buzzer / int. Speaker Support	✓ / -
LAN / with Alert-on-LAN	✓ / -
RAID	-
FireWire™	-
HI-SPEED USB 2.0	-
SmartCard SystemLock(USB / Serial)	- / -
Silent Fan	-
Fujitsu Siemens Computers	-
Keyboard Power Button Support	-

Internal Connectors

DIMM Sockets (DDR333 SDRAM, PC2700)	2
AGP Slot (2/4x, 32Bit, 66 MHz, 1.5 V)	1
PCI Slots (32Bit, 33 MHz, 5 V and 3.3 V)	3
CNR Slot (Type A, AC'97 only)	1
S-ATA (150 Mbyte/s)	-
ATA(Ultra DMA/100)	2
Floppy Interface (up to 2.88 MB)	1
S/PDIF (5.1 digital Audio) OUT / IN	1 / -
CD / AUX Audio Input	1 / -
Frontpanel Audio (headphone, microphone)	1
Wake-on-LAN	-
IEEE 1394* (FireWire™/ i.Link®)	-
USB* (2.0, ~480 MB/s)	4
Serial* (FIFO, 16550 compatible)	-
FAN PSU**/CPU/AUX1/AUX2	- / 1 / 1 / -
SMBus* (Case Temperature)	-
Intrusion* (Case Open)	-
Power ATX/ATX 12V/AGP Pro	1 / 1 / -

External Connectors

VGA	1
Audio Mic. In / Line in / Line out (2 x 0.5 W / 8 Ω) or Surround / Center, LF / Front	1 / 1 / 1
S/PDIF (5.1 digital Audio) OUT / IN	- / -
Game/MIDI	-
LAN (RJ-45)	1
PS/2 Mouse / Keyboard	1 / 1
USB Ports (2.0, ~480MB/s)	2
Serial Ports (FIFO, 16550 compatible)	1
Parallel Port (EPP/ECP)	1

* for use with internal devices or optional Front- or Rearpanel

** not supported by standard Power Supplies

Published by

Fujitsu Siemens Computers
<http://www.fujitsu-siemens.com/mainboards>

All rights, including rights created by patent grant or registration of a
utility model or design as well as rights of technical modifications are
reserved. Delivery subject to availability. Designations may be
trademarks, the use of which by third parties for their own purposes
may violate the rights of the trademark owners.

Company stamp