

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<sup>®</sup> extreme graphics

Chipset: Intel 845GE

## Processors:

Intel<sup>®</sup> Pentium<sup>®</sup> 4 Processors, mPGA 478 with 533/400 MHz FSB Intel<sup>®</sup> Celeron<sup>®</sup> 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









Board Size	µATX: 9.6" x 9.6" (243.8 x 243.8 mm)
Chipset	Intel <sup>®</sup> 845GE

# Chipset

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<sup>®</sup> Pentium<sup>®</sup> 4 Processors, mPGA 478, 533/400 MHz FSB Intel<sup>®</sup> Celeron<sup>®</sup> 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)
	+ 12 V	±5%	8 A
Main Power	- 12 V	± 10 %	0.05 A
Supply	+ 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)

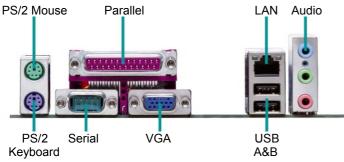
#### **Security Features**

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<sup>®</sup> 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	μΑΤΧ
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 <sup>®</sup> )	-
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 $\Omega$ ) or Surround / Center, LF / Front	1/1/1
S/PDIF (5.1digital 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

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