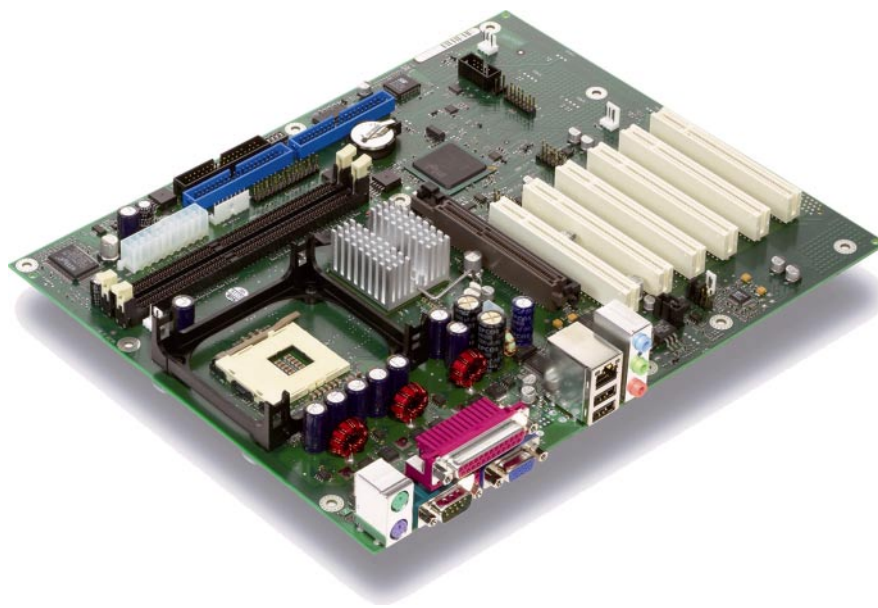


## Mainboard D1527/D1522

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



premium

Intel<sup>®</sup> PRO  
Network Connections

Intel<sup>®</sup>  
extreme  
graphics

Data Sheet

### Chipset:

Intel<sup>®</sup> 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

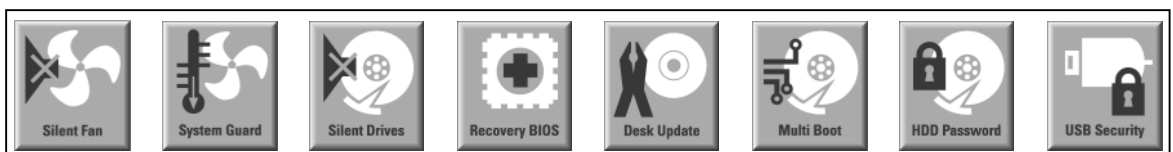
Support for Hyper-Threading  
Technology

### 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**

ATX (D1527): 12" x 9.6" (304.8 x 243.8 mm)  
 µATX (D1522): 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  
 Support for Hyper-Threading Technology  
 (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)

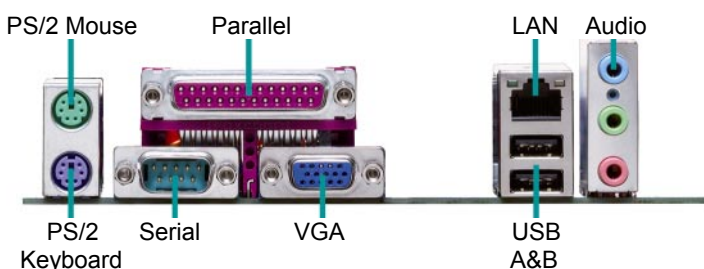
**Security Features**

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 Fan Independent temperature related processor and fan supervision and control
- System Guard View and adjust Silent Fan
- 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
- HDD Password Access protection for ATA5/ATAPI5 disk drives
- 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 AD1981B, AC '97 Audio, 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 EM with 10/100 Mbit/s,  
 Basic Alert-on LAN II, Wake-on-LAN (WoL) by interesting  
 Packets, Link Status Change and Magic Packet™, bootix® BootP  
 or bootix® PXE Support

**IDE**

2 ATA 100 Interfaces, up to 4 IDE Drives,

**Versions**

**D1527-A D1522-A**

**Features**

Features	D1527-A	D1522-A
Chipset	Intel® 845 GE	
Board Size	ATX	µATX
VGA	✓	✓
Audio	✓	✓
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**

Internal Connectors	D1527-A	D1522-A
DIMM Sockets (DDR333 SDRAM, PC2700)	2	2
AGP Slot (2/4x, 32Bit, 66 MHz, 1.5 V)	1	1
PCI Slots (32Bit, 33 MHz, 5 V and 3.3 V)	6	3
CNR Slot (Type A, AC'97 only)	-	-
S-ATA (150 Mbyte/s)	-	-
ATA (Ultra DMA/100)	2	2
Floppy (up to 2.88 MB)	1	1
S/PDIF (5.1 digital Audio) OUT / IN	1 / -	1 / -
CD / AUX Audio Input	1 / -	1 / -
Frontpanel Audio (headphone, microphone)	1	1
Wake-on-LAN	-	-
IEEE 1394 * (FireWire™)	-	-
USB* (2.0, ~480 MB/s)	4	4
Serial* (FIFO, 16550 compatible)	1	1
FAN PSU**/CPU/AUX1/AUX2	1 / 1 / 1 / -	1 / 1 / 1 / -
SMBus* (Case Temperature)	1	-
Intrusion* (Case Open)	1	1
Power ATX/ATX 12V/AGP Pro	1 / 1 / -	1 / 1 / -

**External Connectors**

External Connectors	D1527-A	D1522-A
VGA	1	1
Audio Mic. In / Line in / Line out (2 x 0.5 W / 8 Ω)	1 / 1 / 1	1 / 1 / 1
Game/MIDI	-	-
LAN (RJ-45)	1	1
PS/2 Mouse / Keyboard	1 / 1	1 / 1
USB Ports (2.0, ~480MB/s)	2	2
Serial Ports (FIFO, 16550 compatible)	1	1
Parallel Port (EPP/ECP)	1	1

\* for use with internal devices or optional Front- or Rearpanel  
 \*\* not supported by standard Power Supplies

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