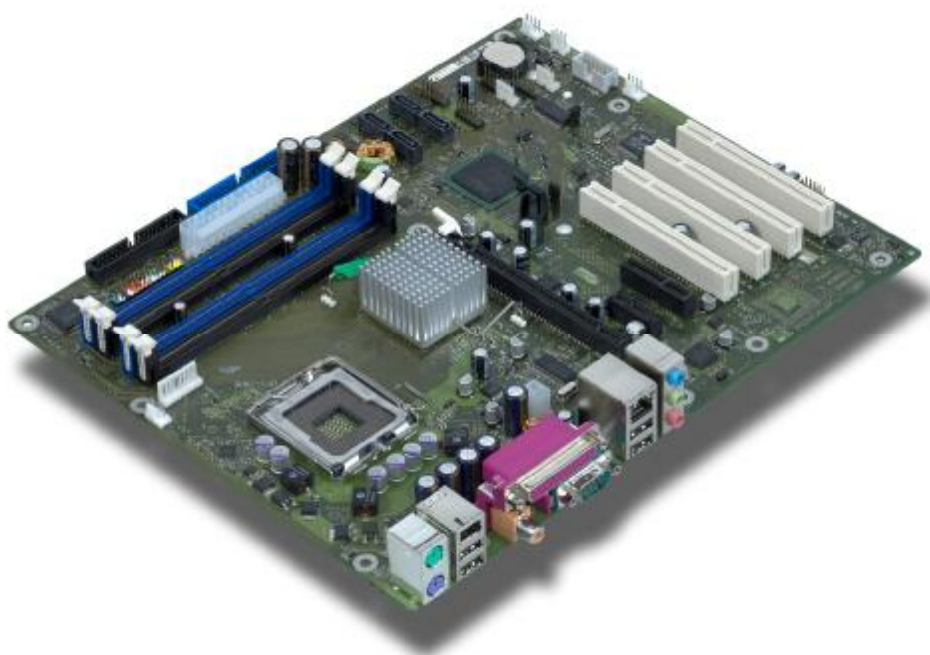


Premium Mainboard D2438-A

Issue August 2006

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Intel 975X Express Chipset for DDR2 667 SDRAM Memory and
Intel Pentium D Processors (1066 MHz FSB)



Chipset:

Intel® 975X

Processors:

Intel® Core 2 DUO Processors,
LGA775 with 1066/800 MHz FSB

Intel® Pentium® D Processors,
LGA775 with 800 / 1066MHz FSB

Intel® Pentium® 4 Processors,
LGA775 with 800 / 1066MHz FSB

Support for Hyper-Threading Technology

Compatible with Intel® 06 and 05A processors

Memory:

DDR2 667 SDRAM

DDR2 533 SDRAM

ECC support

Product Features:

Audio on board

FireWire™ on board

USB 2.0 on board

Gbit LAN on board

Serial ATA II RAID on board



Board Size ATX: 12" x 9.6" (304.8 x 243.8 mm)

Chipset Intel® 975X

Memory

4 DIMM Sockets (1,8 V), 256 MB - 8 GB,
Single or Dual Channel, DDR2 533/667 SDRAM, unbuffered,
ECC supported
(For details on recommended RAM, please refer to our website)

Processors

Intel® Core 2 DUO Processors, LGA775, 1066/800 MHz FSB,
Intel® Pentium® D Processors, LGA775, 800/1066MHz FSB
Intel® Pentium® 4 Processors, LGA775, 800/1066MHz FSB
Support for Hyper-Threading Technology
Compatible with Intel® 06 and 05A processors
(For details on processors supported, please refer to our website)

Power Specification

BTX12V (24 Pin) or ATX12V (20 Pin) Power Supply required
Support for Soft-Off Power Supplies
5V and 3.3V Supply Voltage on PCI Slots (PCI Rev. 2.3)
3.3 V Auxiliary Supply Voltage on PCI Slots (Wake-Up Function)
On board CPU Voltage Regulator, 5V / 2A 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 %	tbd.
	- 12 V	10 %	tbd.
	+ 5 V	5 %	tbd.
	+ 3.3 V	5 %	tbd.
Aux. Power Supply	+ 5 V	5 %	2 A

BIOS

Phoenix cME FirstBIOS Desktop Pro Version V5.00
modified and adapted by Fujitsu Siemens Computers; Recovery BIOS,
SM-BIOS (DMI), BIOS and CPU Microcode Update via disk (stable user
settings), Quick Boot, Logo Boot, Quiet Boot, Plug & Play, Automatic
DRAM and PCI Configuration, BIOS Support for S.M.A.R.T., Advanced
Power Management, ACPI S3 (Save-to-RAM), ACPI S4 (Save-to-Disk),
Wake on time from S5

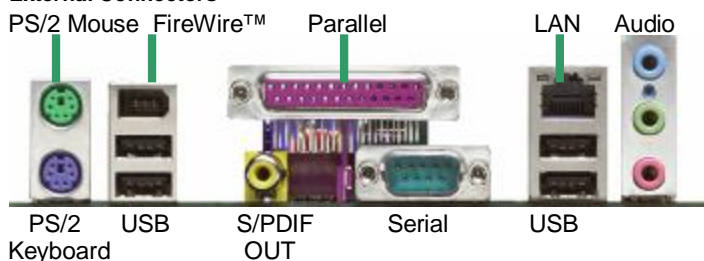
Security Features

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, SPD
EEPROM write protection against virus

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
Safe Standby	Prevents data loss in S3 (Save-to-RAM)
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

External Connectors



Audio

Realtek ALC260 (HD Audio), HW 3D Stereo Enhancement, SW
Wavetable Synthesis Support

LAN

Broadcom BCM5751 controller with 10/100/1000 Mbit/s,
Alert Standard Format (ASF), Wake-on-LAN (WoL) by interesting
Packets, Link Status Change and Magic Packet™, bootix® BootP or
bootix® PXE Support

FireWire™

Agere FW 322, 1394 Controller, two 1394 interfaces

IDE

1 ATA 100 Interface, up to 2 Drives,
4 Serial ATA II 300 Interfaces (up to 3Gbit, NCQ), RAID 0, 1, 0+1, 5

Version

D2438-A

Features

Chipset	i975X
Board Size	ATX
VGA	-
Audio / 8-channel / S/PDIF 5.1	ü / - / -
Buzzer / int. Speaker Support	- / ü
LAN Gbit / 100 Mbit / 10 Mbit	ü / ü / ü
LAN ASF / AoL / WoL / Boot	ü / - / ü / ü
SATA / ATA / RAID	ü / ü / ü
FireWire™ / USB 2.0	ü / ü
FAN monitored PSU**/CPU/AUX1/AUX2	ü / ü / ü / ü
FAN controlled PSU**/CPU/AUX1/AUX2	ü / ü / ü / ü
TEMP monitored CPU/ONB1/ONB2/HDD	ü / ü / ü / ü

Special Features

Silent Fan / Silent Fan LT / System Guard / Silent Drives	ü / - / ü / ü
Recovery BIOS / Desk Update / Multi Boot / Safe Standby	ü / ü / ü / ü
HDD Password	ü
Logo Boot / Intel On Screen Branding	ü / ü

Internal Connectors

DIMM Sockets (DDR400 / DDR2 667)	- / 4
PCI Express x16 Slot for Graphics Card	1
PCI Express x4 Slot	1
PCI Express x1 Slot	1
PCI Slots (32Bit, 33 MHz, Rev. 2.3)	4
SATA (300) / ATA (100) / Floppy	4 / 1 / 1
S/PDIF * (5.1 digital Audio) OUT / IN	- / -
CD / AUX Audio Input	- / -
Frontpanel Audio (9 Pin, Azalia Pinning)	1
FireWire™ * (9-Pin, Intel standard header)	1
USB * (2.0, ~480 MB/s)	4
Serial * (FIFO, 16550 compatible)	-
FAN PSU**/CPU/AUX1/AUX2	1 / 1 / 1 / 1
SMBus * (Case Temperature)	-
Intrusion * (Case Open)	1
Power BTX/ATX 12V	1 / 1

External Connectors

VGA	-
Audio Mic. In / Line in / Line out (or driver configuration)	1 / 1 / 1
Audio Surround / Rear Surround / CenterLFE	- / - / -
S/PDIF (digital Audio, cinch) OUT / IN	1 / -
S/PDIF (digital Audio, optical) OUT	-
LAN (RJ-45)	1
PS/2 Mouse / Keyboard	1 / 1
FireWire™ (6-Pin, IEEE 1394)	1
USB (2.0, ~480MB/s)	4
Serial (RS232, FIFO, 16550 compatible)	1
Parallel (EPP/ECP)	1

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

** not supported by standard Power Supplies