Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

Premium Mainboard D2608-A ATX

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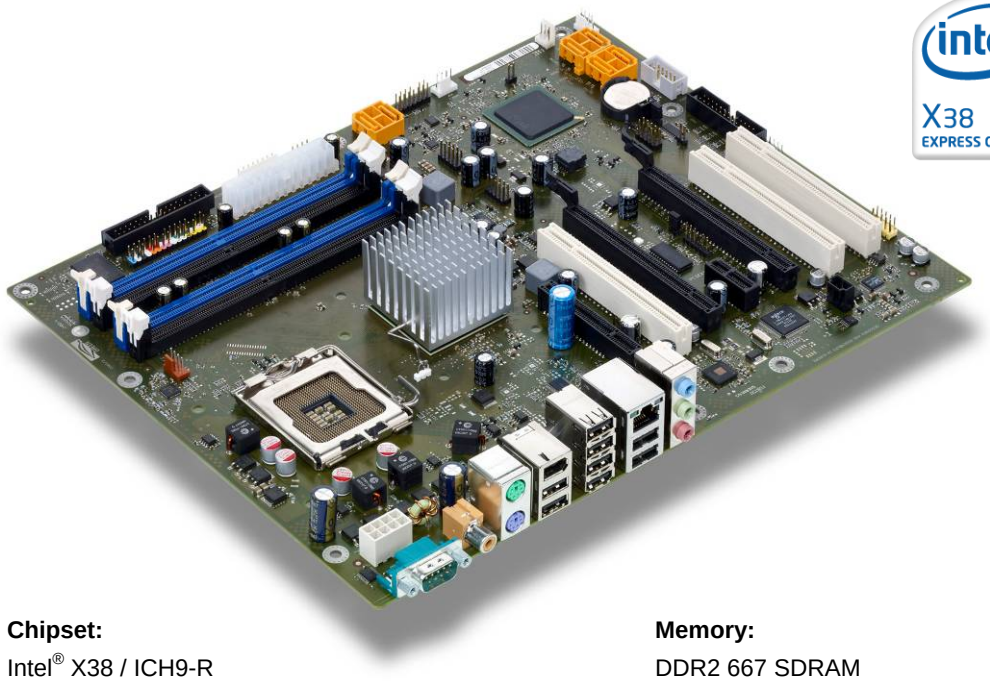
Intel® X38 Chipset for DDR2 800 SDRAM Memory and
Intel® Core™ 2 Duo Processors and Core™ 2 Quad Processors (1333 MHz FSB)



Chipset:

Intel® X38 / ICH9-R

Processors:

Intel® Core™ 2 Quad Q9xxx / Q8xxx Processors, LGA775 with 1333/1066 MHz FSB

Intel® Core™ 2 DUO E8xxx / E6xxx Processors, LGA775 with 1333/1066/800 MHz FSB

Intel® Core™ 2 DUO E7xxx / E4xxx Processors, LGA775 with 1333/1066/800 MHz FSB

Intel® Pentium® Dual Core E2xxx Processors, LGA775 with 800 MHz FSB

Intel® Celeron® Dual Core E1xxx Processors, LGA775 with 800 MHz FSB

Intel® Celeron® 4xx Processors, LGA775 with 800 MHz FSB

Compatible with Intel® 06, 05A and 05B processors (up to 130W)

Memory:

DDR2 667 SDRAM
DDR2 800 SDRAM
with ECC Support

Product Features:

Dual PCIe x16 (Gen2) on board
Audio on board
FireWire™ on board
USB 2.0 on board
GbE LAN on board
Serial ATA II RAID on board
Trusted Platform Modul V1.2 onboard

24/7 OPERATING MODE | SILENT FAN | SYSTEM GUARD | SILENT DRIVES | MULTI BOOT | HDD PASSWORD | RECOVERY BIOS | DESK UPDATE | WATCH DOG

Board Size	ATX: 12“ x 9.6“ (304.8 x 243.8 mm)
Chipset	Intel® X38 / ICH9-R

Memory
4 DIMM Sockets (1.8V), 256MB - 8GB, Single Channel or
Dual Channel DDR2 800/667SDRAM, unbuffered, ECC
(For details on recommended RAM, please refer to our website)

Processors
Intel® Core 2 Quad Processors, LGA775, 1333/1066 MHz FSB
Intel® Core 2 DUO Processors, LGA775, 1333/1066/800 MHz FSB
Intel® Pentium Dual Core E2xxx Processors, LGA775, 800 MHz FSB
Intel® Celeron® 4xx Processors, LGA775, 800 MHz FSB
(For details on supported processors, 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)
3.3V 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	PS Load (min. .) [1]	Voltage Tolerance (max)	Mainboard Current (max.)
Main Power Supply	+ 12 V	0.3 A	± 5 %	12 A
	- 12 V	0 A	± 10 %	0.05 A
	+ 5 V	0.6A	± 5 %	6 A
	+ 3.3 V	0A	± 5 %	0.5 A
Aux. Power Supply	+ 5 V	0 A	+5%; -3%	2 A

1) PS must support these load conditions if low power processors (e.g. Celeron 4xx) are used.

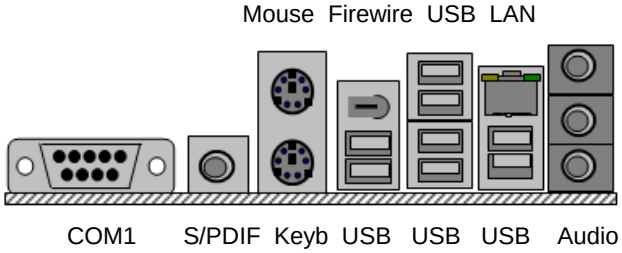
BIOS
Phoenix Trusted Core BIOS Version 6.00
modified and adapted by Fujitsu Siemens Computers; Recovery BIOS, SM-BIOS (DMI), BIOS and CPU Microcode Update via disk (stable user settings), Quick Boot, Logo Boot, Quiet Boot, Plug & Play, Automatic DRAM and PCI Configuration, BIOS Support for S.M.A.R.T., 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 SATA Drive, Serial Port Access Protection, Boot Sector Virus Warning, Write Protection for Flash BIOS. Trusted Platform Module (TPM) V1.2 (Infineon)

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 DVD
Multi Boot	Comfortable boot from any boot device
HDD Password	Access protection for up to two disk drives

External Connectors



Audio
Realtek ALC262, 2-channel, High Definition Audio

LAN
Intel 82566 Ethernet Controller with 10/100/1000 MBit/s
Wake-on-LAN (WoL) by interesting Packets, Link Status Change and Magic Packet™, bootix® PXE Support, BIOS MAC Address Display

Drives
- 6 Serial ATA II 300 Interfaces (up to 3GBit/s, NCQ); RAID 0, 1, 10, 5
- Floppy

Version	D2608-A
Features	
Chipset	Intel X38 / ICH9R
Board Size	ATX
VGA	-
Stereo Audio / Multichannel Audio	✓ / -
Buzzer / int. Speaker Support	- / ✓
LAN Gbit / 100 Mbit / 10 Mbit	✓ / ✓ / ✓
LAN ASF / AoL / WoL / Boot / iAMT	- / - / ✓ / ✓/ -
SATA / ATA / RAID / eSATA-support [1]	✓ / - / ✓ / ✓
FireWire™ / USB 2.0	✓ / ✓
FAN monitored PSU [2] /CPU/AUX1/AUX2/AUX3	✓ / ✓ / ✓ / ✓ / ✓
FAN controlled PSU [2] /CPU/AUX1/AUX2/AUX3	✓ / ✓ / ✓ / ✓ / ✓
TEMP monitored CPU / ONB1 / ONB2 / OFFB	✓ / ✓ / ✓ / -
Special Features	
Silent Fan / Silent Fan LT / System Guard / Silent Drives	✓ / - / ✓ / ✓
Recovery BIOS / Desk Update / Multi Boot	✓ / ✓ / ✓
HDD Password	✓
Logo Boot / Intel On Screen Branding	✓ / ✓

Internal Connectors	
DIMM Sockets (DDR2 800)	4
PCI Express x16 (Gen. 2)	2
PCI Express x1 Slot	1
PCI Express x8 Slot (4 Lanes)	1
PCI Slots (32Bit, 33 MHz, Rev. 2.3)	3
SATA (300) / ATA (100) / Floppy	6 / 0 / 1
S/PDIF (digital Audio) OUT / IN	1 / -
Audio Input	-
Frontpanel Audio (9-Pin) AC'97 / Azalia	- / 1
FireWire™ (9-Pin, Intel standard header)	1
USB (2.0, ~480 MB/s, 2 channels per connector)	2
Serial (FIFO, 16550 compatible)	-
FAN PSU [2] /CPU/AUX1/AUX2/Aux3	1 / 1 / 1 / 1 / 1
SMBus (Case Temperature)	-
Intrusion (Case Open)	1
LCD Status Display Support	-
Parallel (EPP/ECP) Pin Connector [3]	1
Power 24 pin (BTX) / 8 pin (12V processor supply) [4]	1 / 1

External Connectors	
VGA Sub D / DVI	- / -
Audio Mic. In / Line in / Line out (or driver configuration)	1 / 1 / 1
Audio Surround / RearSurround / 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)	8
Serial (RS232, FIFO, 16550 compatible)	1
Parallel (EPP/ECP) [3]	-

1) No Hot Plug support
2) Not supported by standard Power Supplies
3) External parallel port possible via optional connector cable
4) Standard 4 pin connector can be used for any configuration

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