Data Sheet

We make sure

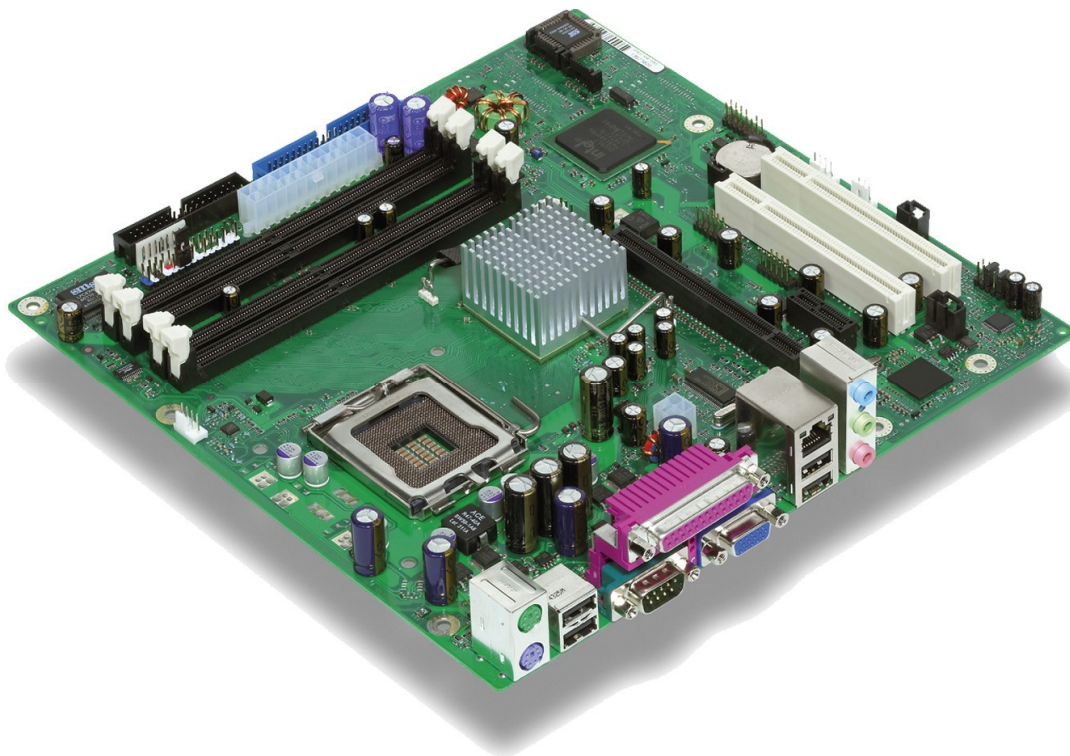**FUJITSU** COMPUTERS
SIEMENS

Value Mainboard D2331-A

Issue   January 2006

Pages   2

Intel 915GV Express Chipset for
DDR2 533 SDRAM (PC2 4200) Memory and
Intel Pentium 4 Processors (800 MHz FSB)

GREEN

PCI
EXPRESS

SERIAL
ATA

Chipset:

Intel® 915GV

Processors:

Intel® Pentium® 4 Processors,
LGA775 with 800/533 MHz FSB

Intel® Celeron® Processors,
LGA775 with 533 MHz FSB

Support for Hyper-Threading Technology

Compatible with Intel® 04A processors

Memory:

DDR2 533 SDRAM (PC2 4200)

Product Features:

Graphics on board
Audio on board
USB 2.0 on board
GbE on board
Serial ATA on board

Silent Fan LT   System Guard   Silent Drives   Safe Standby   Desk Update   Recovery BIOS   Multi Boot

Board Size	µATX: 9,6" x 9.6" (243.8 x 243.8 mm)
Chipset	Intel® 915GV

Memory
4 DIMM Sockets (1.8V), 256 MB - 4 GB, Dual or Single channel, DDR2 533 SDRAM, unbuffered, no ECC
(For details on recommended RAM, please refer to our website)

Processors
Intel® Pentium 4 Processors, LGA775, 800/ 533 MHz FSB,
Intel® Celeron Processors, LGA775, 533 MHz FSB
Support for Hyper-Threading Technology
Compatible with Intel 04A 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)
3.3V 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)

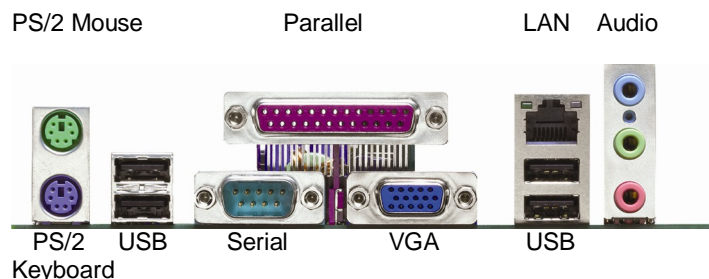| Source	Voltage	Maximal variation	Mainboard Current Typical (Maximal)
Main Power Supply	+ 12 V	± 5 %	tbd
	- 12 V	± 10 %	tbd
	+ 5 V	± 5 %	tbd
	+ 3.3 V	± 5 %	tbd
Aux. Power Supply	+ 5 V	± 5 %	tbd

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

Special Features
Green Edition   Halogen-free and lead-reduced
Silent Fan LT   Independent temperature related fan control
SystemGuard   View and adjust Silent Fan LT
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

External Connectors

PS/2 Mouse   Parallel   LAN   Audio

PS/2   USB   Serial   VGA   USB
Keyboard

Graphics
Intel® GMA900 Graphics Controller, 333 MHz core frequency, 256-bit 2-D and 32-bit 3-D engine, Motion video acceleration, up to 2048 x 1536 at 75 Hz refresh, integrated 24-bit 400 MHz RAMDAC, Dynamic Video Memory Technology, DDC 2B Support for Monitor Detection, Support for ADD2 cards

Audio
Realtek ALC260, 2-channel High Definition Audio

LAN
Realtek 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

IDE
1 ATA 100 Interface, up to 2 Drives,
2 Serial ATA 150 Interfaces, up to 2 Drives

Version	D2331-A
Features	
Chipset	Intel® 915GV
Board Size	µATX
VGA	ü
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
SATA / ATA / RAID	ü / ü / -
FireWire™ / USB 2.0	- / ü
FAN monitored PSU*/CPU/AUX1/AUX2	- / - / - / -
FAN controlled PSU*/CPU/AUX1/AUX2	- / ü / ü / -
TEMP monitored CPU/ONB1/ONB2/OFFB	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	-
Logo Boot / Intel On Screen Branding	- / ü

Internal Connectors	
DIMM Sockets (DDR400 / DDR2 533)	- / 4
PCI Express x16 Slot for Graphics Card	ADD2 only
PCI Express x1 Slot	1
PCI Slots (32Bit, 33 MHz, Rev. 2.3)	2
SATA (150) / ATA (133) / Floppy	2 / 1 / 1
S/PDIF (digital Audio) OUT / IN	- / -
Audio Input	-
Frontpanel Audio (9-Pin) AC'97 / Azalia	- / 1
FireWire™ (9-Pin, Intel standard header)	-
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 BTX/ATX 12V	1 / 1

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

* Not supported by standard Power Supplies