Data Sheet
Fujitsu Mainboard D2703-S
Industrial Mainboard Series

AMD M690E & SB600 Chipset for DDR2 800/667 SDRAM Memory (SO-DIMM) and
AMD Turion™ 64 X2 Dual Core and Sempron™ Mobile Processors

Enhanced operating temperature range from 0°C to 60°C

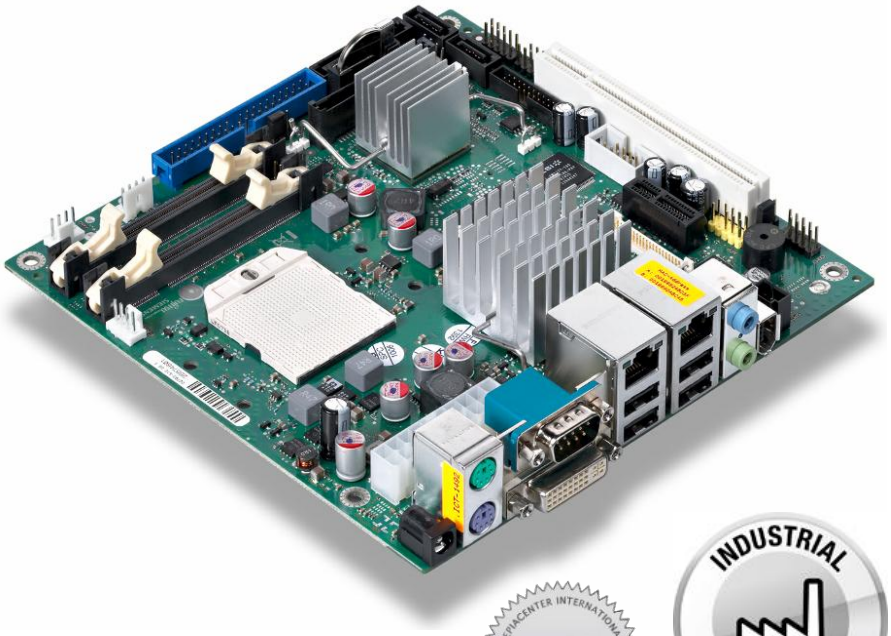
Chipset:
AMD M690E & SB600
Processors:
Mobile Socket S1 with Hyper Transport™
AMD Mobile Turion™ 64 X2 Dual Core
AMD Mobile Sempron™ (*)

(*fanless cooling with AMD Sempron 2100+)

Memory:
DDR2 800/667 SDRAM (SO-DIMM)

Product Features:
ATI Radeon X1250 graphics on board; VGA, DVI and
Dual Channel LVDS support
HD Audio on board
Dual GbE LAN on board
Serial ATA II RAID on board
CF support (for Embedded OS) on board
USB 2.0 and IEE1394 (Firewire 400) on board

Power Select:
Power supply options
-Standard ATX supply (via onboard connector) or
-24V DC supply (via onboard connector) or
-24V DC supply (via external connector /
AC adapter



EPIACENTER INTERNATIONAL SILVER AWARD FEBRUAR 2008

INDUSTRIAL SERIES

Designed for Windows® XP
Windows Vista™ Capable

FireWire

AMD Turion 64 X2 MOBILE TECHNOLOGY

PCI EXPRESS

SERIAL ATA

AMD 690 CHIPSET

ATI Radeon GRAPHICS

EXTENDED TEMPERATURE | 24/7 OPERATION | SILENT FAN | SYSTEM GUARD | FANLESS | SILENT DRIVES | MULTI BOOT | HDD PASSWORD | RECOVERY BIOS | DESK UPDATE | WATCH DOG | POWER SELECT

Features and benefits

Board Size Mini-ITX: 6.7" x 6.7" (170 x 170 mm)

Chipset AMD M690E & SB600

Memory
2 SO DIMM Sockets (1.8V), 256MB - 8GB, Single Channel or
Dual Channel DDR2 800/667 SDRAM, unbuffered, no ECC
(For details on recommended RAM, please refer to our website)

Processors
AMD Mobile Turion™ 64 X2 Dual Core Processors
AMD Mobile Sempron™ Processors
Mobile Socket S1g1 (PGA 638), max. 35W, HyperTransport™ 1; 800MHz

Power Specification
BTX12V (24 Pin) or ATX12V (20 Pin) Power Supply required
Support for Soft-Off Power Supplies or
24V / 5A via DC-connector (Rear I/O connector or onboard connector)
5V and 3.3V Supply Voltage on PCI Slots (PCI Rev. 2.3)
3.3V Auxiliary Supply Voltage on PCI Slots (Wake-Up Function)
Onboard CPU Voltage Regulator, 5V / 2A Auxiliary Power (BTX/ATX only)
required for USB Wake-Up from Save-to-RAM, Save-to-Disk

Power Supply Requirements
for onboard components (worst case)

Source (ATX / BTX)	Voltage	PS Load (min.) 1	Tolerance (max)	Mainboard Current (typ.) 2)
Main Power Supply	+ 12 V	0.15 A	± 5 %	0.7 A
	- 12 V	0 A	± 10 %	~ 20 mA
	+ 5 V	1 A	± 5 %	1.5 A
	+ 3.3 V	0.3 A	± 5 %	0.6 A
Aux. Power	+ 5 V	0.1 A	± 5 %	0.15 A
Source				
DC-In	+ 24 V	n.a.	+10% / -15 %	0.6 A 3)

BIOS
Phoenix TrustedCore BIOS Version V6.00
modified and adapted by Fujitsu Siemens Computers; Recovery BIOS, SM-BIOS (DMI), BIOS Update via USB (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; Flexible LVDS Support

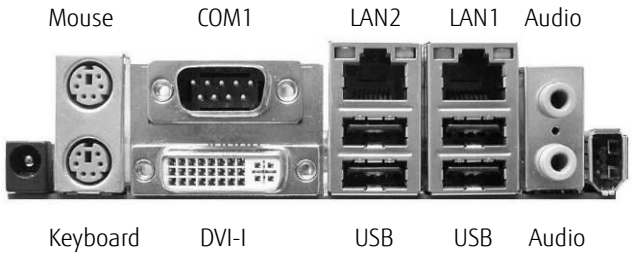
Security Features
Recovery BIOS, System and BIOS Password, Boot Sequence Control
for each SATA / IDE Drive, Serial Port Access Protection,
Boot Sector Virus Warning, Write Protection for Flash BIOS, Harddisk.
Password. Trusted Platform Module V1.2 optional.

Special Features

Silent Fan	Independent temperature related processor fan and system fan supervision and control
System Guard	View and adjust Silent Fan
Silent Drive	Noise reduction for optical and hard disk drives
Recovery BIOS	Restores a corrupted BIOS
Desk Update	Simple driver update with Driver&Utilities DVD
Multi Boot	Comfortable boot from any boot device

Designed for Industrial Applications
Longlife components for 24 / 7 use in industrial applications
Tin-plated PCB for improved durability of PCB surface
Revision control & Extended Lifetime (up to 5 years)
Enhanced operating temperature range (0°C - 60°C) [1]

External Connectors



Graphics
Integrated ATI Radeon X1250 graphics; shared memory (up to 256MB); DirectX 9 compliant; DVI, VGA and Dual Channel LVDS support

Audio
Realtek ALC262 (HD Audio); HW 3D Stereo Enhancement; SW Wavetable Synthesis Support

LAN
Dual Realtek RTL8111C 10/100/1000 Ethernet controller

Drives
1 ATA 133 Interface for 1 Drive
4 Serial ATA II 300 Interfaces (max 3 GBit/s); up to 4 Drives; RAID 0/1/10
1 CF Interface (Typ I)

Features	**D2703-S**
Chipset	AMD M690E & SB600
Board Size	Mini-ITX
VGA [2] / DVI / LVDS	✓ / ✓ / ✓
Stereo Audio / Multichannel Audio	✓ / -
Buzzer / int. Speaker Support	✓ / -
Dual LAN Gbit / 100 Mbit / 10 Mbit	✓ / ✓ / ✓
LAN ASF / AoL / WoL / Boot	- / - / ✓ / ✓
SATA / ATA / RAID	✓ / ✓ / ✓
FireWire™ / USB 2.0	✓ / ✓
FAN monitored & controlled CPU / AUX1 / AUX2	✓ / ✓ / ✓
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	✓
Boot Logo Option	✓
Internal Connectors	
DIMM Sockets (DDR2 800/667, SO-DIMM)	2
PCI Express x16 Slot for Graphics Card	-
PCI Express x1 Slot	1
PCI Slot (32Bit, 33 MHz, Rev. 2.3)	1
SATA (300) / ATA (133) / Floppy / CF Card	4 / 1 / - / 1
S/PDIF (digital Audio) OUT / IN	1 / -
CD Audio Input	-
Frontpanel Audio (9-Pin) AC'97 / Azalia [3]	- / 1
FireWire™ (9-Pin, Intel standard header)	1
USB (2.0, ~480 MB/s; 2 channels per connector)	2
Serial (FIFO, 16550 compatible)	1
FAN CPU / Syste (AUX1) / System (AUX2) [4]	1 / 1 / 1
SMBus (Case Temperature) / Intrusion (Case Open)	- / -
LVDS Dual Channel / Backlight Inverter	1 / 1
Feature Connector (General Purpose I/O, IrDA)	1
Frontpanel (Power Switch, LEDs, Intel 10 pin header)	1
Onboard Power Output (+5V/+12V) for drives	1
Onboard (internal input) DC-In 24V / 5A [5]	1
Power 20 pin (ATX) [5] / 4 pin (12V processor supply)	1 / -
External Connectors	
VGA Sub D [2] / DVI-I	- / 1
Audio In / Line out (or driver configuration)	1 / 1
S/PDIF (digital Audio) OUT / IN	- / -
LAN (RJ-45)	2
PS/2 Mouse / Keyboard	1 / 1
FireWire™ (6-Pin, IEEE 1394)	1
USB (2,0, ~ 480 MB/s)	4
Serial (RS232, FIFO 16550 compatible	1
DC-IN (external input) 24 V / 5A [5]	1
Parallel (EPP7ecp)	-

1) Forced cooling required, see technical documentation for detailed requirements
2) Via optional DVI-I/ VGA interface connector 3) Support for AC´97 audio frontpanel possible via BIOS Setup option
4) All fan connectors= 4 pin PWM 5) Not for simultaneous use

More information

Fujitsu platform solutions

In addition to Fujitsu Mainboards Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

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- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical IA server
- ETERNUS: Storage system

Software
www.fujitsu.com/software/
- Interstage: Application infrastructure software
- Systemwalker: System management software

More information

Learn more about Fujitsu Mainboards, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website.
http://ts.fujitsu.com/

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at:
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