Inform

We make sure

FUJITSU COMPUTERS SIEMENS

ECN D2703-S Mini-ITX Industrial Mainboard

Issue 10/2008
Category ECN
Content D2703-S13 GS1

Use OEM
Pages 3

Industrial Mainboard D2703-S

Old Part No. S26361-**D2703-S12**
Old PCB / HW Revision **WGS3** / GS1

New Part No. S26361-**D2703-S13**
New PCB / HW Revision **WGS4** / GS1
ECN No. SBOEM-D2703S-301008

Reason for ECN

- **Updated PCB version (WGS4)**
- **Support for 3-wire fans (voltage controlled) via Fan2-connnector added**
- **Audio capacitors replaced by improved longlife type**
- **Fan3 connector: Workaround in order to enable usage of fans with abnormal low input resistance (PWM control input)**
- **Processor throttling support ("ProcHot") in case of processor temperature Alert added**

Shipping details Shipment of D2703-S13 mainboards is expected from mid of November 2008.

Compatibility D2703-S13 is fully compatible with D2703-S12 regarding mechanics, connectors, major components and drivers. D2703-S13 requires BIOS Rev. 1.07 or higher.

The mainboard is released for the following Operating Systems:

	DOS 6.x	Windows 2000	Windows XP32	Windows XP64	Vista 32	Vista 64				
D2703-S12 GS1			X		X					
D2703-S13 GS1			X		X					

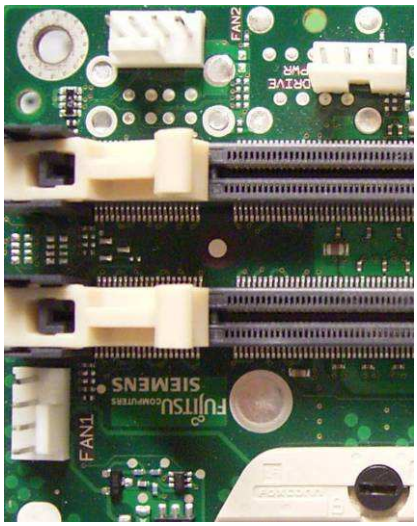
Releases apply for "X" marked fields only. Empty fields stand for non-released!

Released processors (D2703-S12 and D2703–S13):

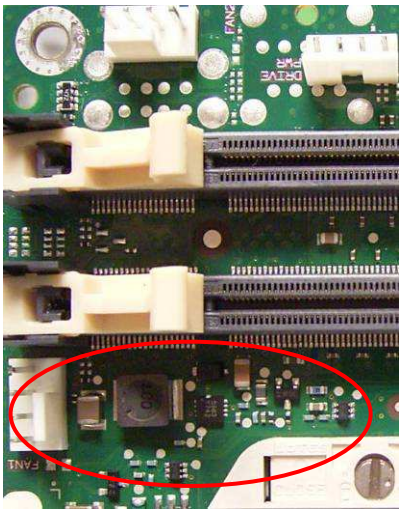
- Sempron 2100+
- Sempron 3500+, 3700+, 3800+
- Athlon TF-20 (requires BIOS 1.07 or higher)
- Turion TL-52, TL56
- Turion TL-62, TL-66, TL-68

Component changes and additional features

Support for 3-wire fans (voltage controlled) via Fan2-connnector



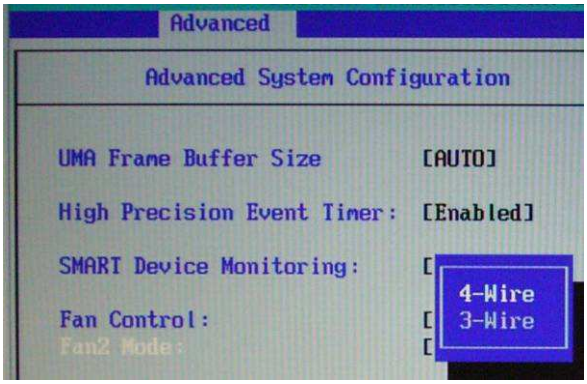
D2703-S12



D2703-**S13**

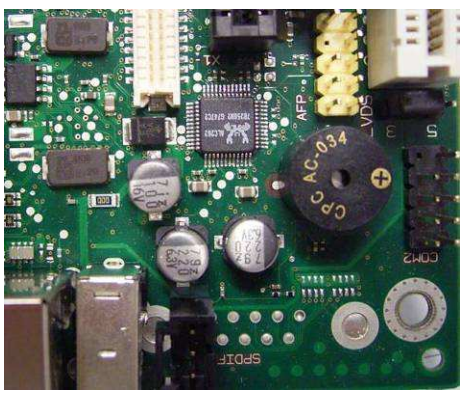
Note: Picture shows additional “Switched Voltage Regulator” for 3-Wire fans attached to FAN2-connector.
By default, FAN2 can be used for standard PWM 4-Wire fans.

There is a new BIOS option for D2703-S13 to change the FAN2 setting from 4-Wire support to 3-Wire support.

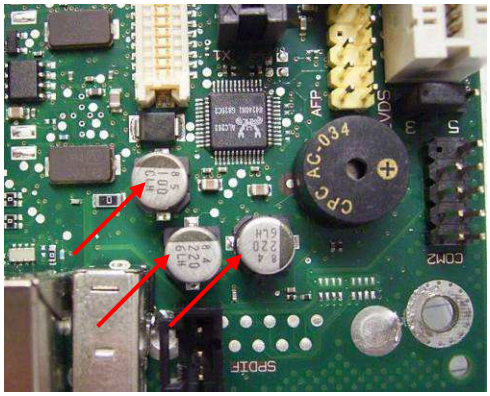


The default fan operating voltage in 3-Wire mode is ~ 6V, maximum operating voltage is 12V (current max. 1A).
The fan control characteristics can be customized via SilentFanConfigManager.

Enhanced Audio Capacitors



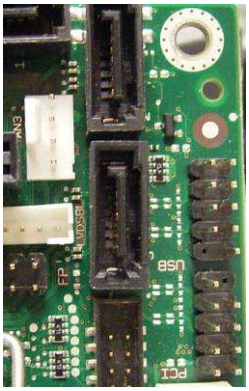
D2703-S12



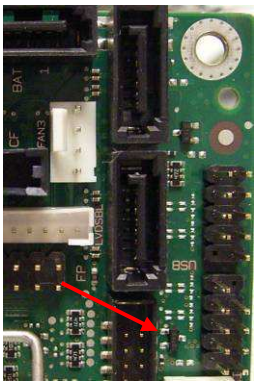
D2703-**S13**

Note: These improved longlife capacitors have not been available before!

Fan3 connector: Workaround in order to enable usage of fans with abnormal low input resistance (PWM control input)



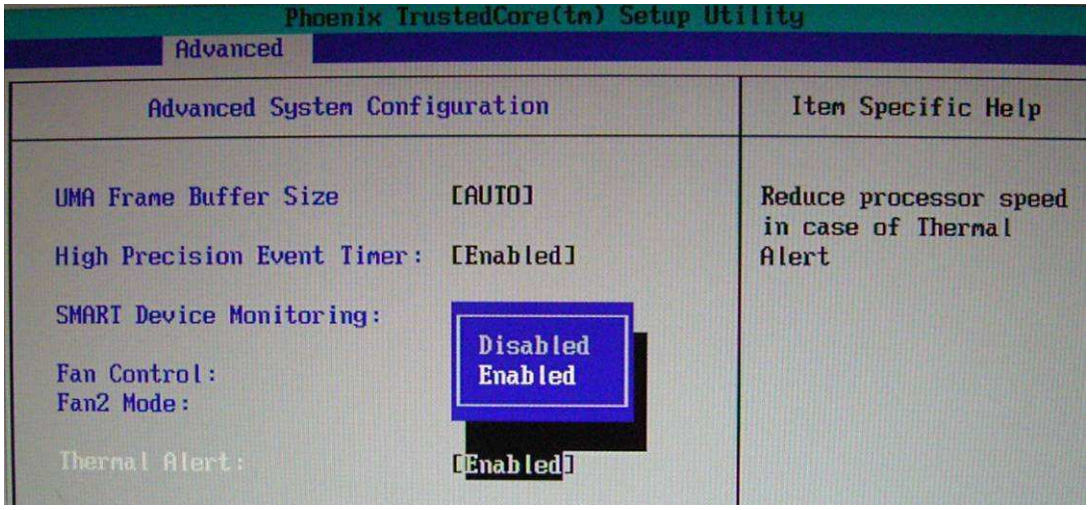
D2703-S12



D2703-**S13**

Note: If a fan with low PWM input resistance is attached to FAN3-connector of D2703-S12, the fan speed control will be disabled and all fans operate at full speed.
Due to the workaround, this issue has been fixed with D2703-S13.

Processor throttling support ("ProcHot")



Note: If the processor temperature exceeds the internal Alert temperature level (~ 100℃; exact level depends on processor model), the onboard electronics forces the processor to throttle down in order to prevent the system from damage. The processor performance will be reduced to ~ 50%.
The performance compensation will not be reset automatically after the processor has gone below the limit temperature, but will remain active until the system is shut down or set to S3 (Standby) or S4 (save to disk).
Due to reliability reasons this new feature of D2703-S13 is enabled in BIOS Setup by default.

Changes Rev to Rev		Date	Reason for changes
WGS3 GS1	WGS4 GS1	Oct 29, 2008	D2703-S13: Updated PCB; enhanced features; improved components
	WGS3 GS1	Jan 17, 2008	Initial launch of D2703–S12

Delivery subject to availability, specifications subject to change without notice, correction of errors and omissions excepted. All conditions quoted (TCs) are recommended cost prices in EURO excl. VAT (unless stated otherwise in the text). All hardware and software names used are brand names and/or trademarks of their respective holders.

Copyright © Fujitsu Siemens Computers, 10/2008

Published by department:

OEM Mainboard Sales
Fax: ++49 821 804 3329

OEM-Sales@fujitsu-siemens.com
http://www.fujitsu-siemens.com/mainbaords