

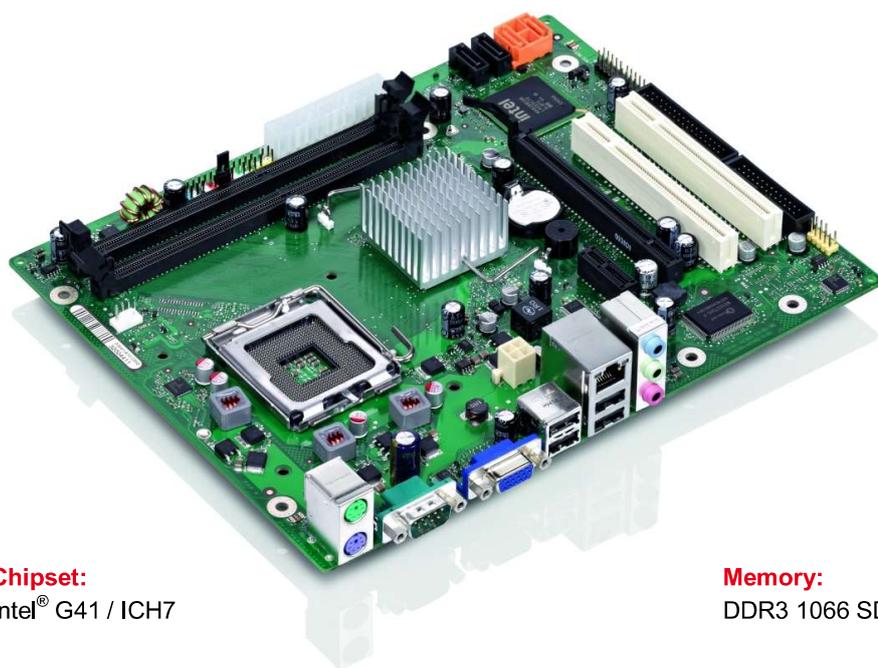
# DATA SHEET

## MAINBOARD D3041-A μATX Classic Desktop Series

Issue February 2010

Pages 2

Intel® G41 Express Chipset for DDR3 1066 SDRAM Memory and  
Intel® Core™2 Duo Processors and Core™2 Quad Processors (up to 1333 MHz FSB)



### Chipset:

Intel® G41 / ICH7

### Memory:

DDR3 1066 SDRAM

### Processors:

Intel® Core™ 2 Quad Q9xxx / Q8xxx Processors,  
LGA775 with 1333/1066 MHz FSBIntel® Core™ 2 DUO E8xxx / E7xxx Processors,  
LGA775 with 1333/1066 MHz FSBIntel® Pentium® Dual Core E6xxx / E5xxx / E2xxx  
Processors, LGA775 with 1066/800 MHz FSBIntel® Celeron® Dual Core E3xxx / E1xxx Processors,  
LGA775 with 800 MHz FSBIntel® Celeron® 4xx Processors,  
LGA775 with 800 MHz FSB

### Product Features:

GbE LAN onboard  
Graphics onboard  
5.1 multichannel audio onboard  
Serial ATA II onboard  
USB 2.0 onboard  
Mainboard prepared for EuP



<b>Board Size</b>	µATX (reduced): 244 x 193 mm
<b>Chipset</b>	Intel® G41 / ICH7
<b>Memory</b>	2 DIMM Sockets (1.5V), 1GB - 8GB, Single Channel or Dual Channel DDR3-1066 (CL7) / DDR3-1333 (CL9) SDRAM, unbuffered, no ECC Note: Usage of DDR3-1333 possible, but clock will be reduced to 1066MHz!
<b>Processors</b>	Intel® Core™ 2 Quad Q9xxx / Q8xxx, 1333/1066 MHz FSB Intel® Core™ 2 Duo E8xxx / E7xxx, 1333/1066 MHz FSB Intel® Pentium® dual-core E2xxx / E5xxx / E6xxx, 800/1066 MHz FSB Intel® Celeron® dual-core E1xxx / E3xxx, 800 MHz FSB Intel® Celeron® 4xx, 800 MHz FSB Compatible with Intel® 06 and 05A processors, max. 95W (LGA775) (For details on supported processors please refer to our website)

**Power Specification**  
 BTX12V (24 Pin) or ATX12V (20 Pin) Power Supply required  
 5V and 3.3V supply voltage on PCI slots (PCI Rev. 2.3)  
 3.3V auxiliary supply voltage on PCI Slots (wake-up support)

**Power Supply (PS) Requirements**  
 for onboard components (worst case)

Source	Voltage	PS Load (min.) <sup>1</sup>	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

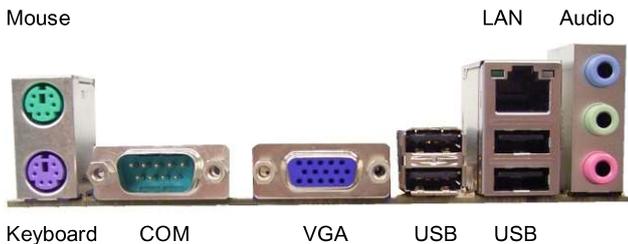
1) PS must support these load conditions in order to support low power processors states

**BIOS**  
 Phoenix Secure Core BIOS Version 6.00  
 modified and adapted by Fujitsu Technology Solutions; 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/S4, Wake on time from S5

**Security Features**  
 Recovery BIOS, System and BIOS Password, Write Protection for Floppy Disk Drive, Boot Sequence Control, Serial/Parallel/USB- Port Access Protection, Boot Sector Virus Warning, Write Protection for Flash BIOS.

Special Features	
Silent Fan LT	Independent temperature related processor fan and system fan control
System Guard	View Silent Fan LT features
Silent Drives	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
HDD Password	Access protection for disk drives

**External Connectors**



**Graphics**  
 Intel® GMA X4500 integrated graphics controller, shared memory (up to 256MB), DirectX 10 compliant, upgradeable with PCI Express x16 graphics card or ADD2+ cards

**Audio**  
 Realtek ALC 663, 5.1-channel, High Definition audio

**LAN**  
 Realtek RTL8111DL Ethernet Controller with 10/100/1000 MBit/s, Wake-on-LAN (WoL) by interesting Packets, Link Status Change and Magic Packet™, PXE support

**Drives**  
 - 4 Serial ATA II 300 Interfaces (up to 3Gbit/s, NCQ)  
 - Floppy

**D3041-A**

Features	
Chipset	iG41, ICH7
Board Size	reduced µATX
VGA	✓
Stereo Audio / 5.1 Multichannel Audio	- / ✓
Buzzer / int. Speaker Support	✓ / -
LAN Gbit / 100 Mbit / 10 Mbit	✓ / ✓ / ✓
LAN ASF / DASH / WoL / Boot / iAMT	- / - / ✓ / ✓ / -
SATA / ATA / RAID / eSATA Support	✓ / - / - / -
FireWire™ / USB 2.0	- / ✓
FAN monitored PSU <sup>1)</sup> / CPU / AUX1	- / - / -
FAN controlled PSU <sup>1)</sup> / CPU / AUX1	- / ✓ / ✓
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 / HDD Encryption	✓ / -
Logo Boot Option / Intel On Screen Branding	✓ / ✓
High Efficient Core regulator design (85% @ 65W)	-
Operating Mode 24-7 / 8-5 (hrs per day - days per week)	- / ✓
Internal Connectors	
DIMM Sockets (DDR3 1066/1333)	2
PCI Express x16 Slot	1
PCI Express x1 Slot	1
PCI Slots (32Bit, 33 MHz, Rev. 2.3)	2
SATA (300) / ATA (100) / Floppy	4 / 0 / 1
S/PDIF (digital Audio) OUT / IN	- / -
Audio Input (analogue CD type)	-
Frontpanel High Definition Audio (9-Pin)	1
FireWire™ (9-Pin, Intel standard Header)	-
USB (2.0, ~480 MB/s, 2 Channels per Connector)	2
Serial (FIFO, 16550 compatible)	-
FAN PSU <sup>1)</sup> / CPU / AUX1	- / 1 / 1
SMBus (Case Temperature)	-
Intrusion (Case Open)	-
Parallel (EPP/ECP) Pin Connector <sup>2)</sup>	1
Status LCD Display Connector	-
Power 24 Pin (BTX) / 4 Pin (12V Processor Supply)	1 / 1
External Connectors	
VGA Sub D / DVI <sup>3)</sup>	1 / -
Audio Mic. In / Line in / Line out (configurable)	1 / 1 / 1
Audio Surround / RearSurround / CenterLFE	- / - / -
S/PDIF (digital Audio)	-
LAN (RJ-45)	1
PS/2 Mouse / Keyboard	1 / 1
FireWire™ (6-Pin, IEEE 1394)	-
USB (2.0, ~480MB/s)	4
Serial (RS232) / Parallel (EPP/ECP) <sup>2)</sup>	1 / -

1) Not supported by standard Power Supplies  
 2) External parallel port possible via optional connector cable  
 3) DVI connector possible via DVI extension card D2823

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