

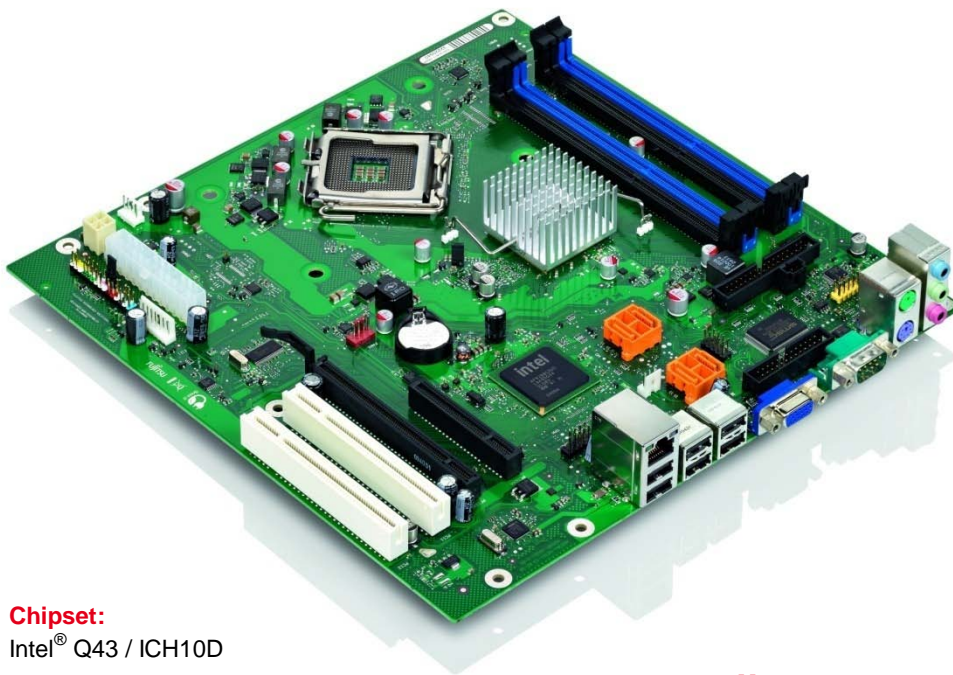
DATA SHEET

MAINBOARD D3011-A µBTX Classic Desktop Series

Issue February 2010

Pages 2

Intel® Q43 Chipset supporting Intel® Active Management Technology 5.2 (Standard Manageability)
for DDR3 - 1066 SDRAM Memory and
Intel® Core™2 Duo Processors and Core™2 Quad Processors (up to 1333 MHz FSB)



Chipset:

Intel® Q43 / ICH10D

Processors:

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

Intel® Core™ 2 DUO E8xxx / E7xxx Processors,
LGA775 with 1333/1066 MHz FSB

Intel® Pentium® Dual Core E6xxx / E5xxx / E2xxx
Processors, LGA775 with 1066/800 MHz FSB

Intel® Celeron® Dual Core E3xxx / E1xxx Processors,
LGA775 with 800 MHz FSB

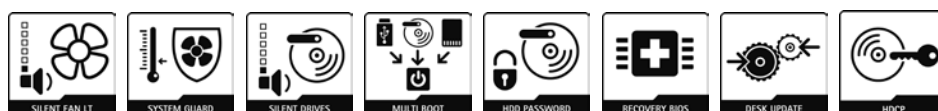
Intel® Celeron® 4xx Processors,
LGA775 with 800 MHz FSB

Memory:

DDR3 1066 SDRAM

Product Features:

- Intel AMT 5.2 technology
- Graphics onboard
- PCI Express Gen2
- Multichannel Audio onboard
- USB 2.0 onboard
- Intel GbE LAN onboard
- Serial ATA II onboard
- Trusted Platform Modul V1.2 onboard
- Mainboard prepared for EuP



Board Size	µBTX: 10.5" x 9.95" (266.7 x 264.2 mm)
Chipset	Intel® Q43 / ICH10 D

Memory
 4 DIMM Sockets (1.5V), 1GB - 16GB, Single / 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!

Processors
 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
 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 (PS) 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	± 5 %	12A
	- 12 V	0A	± 10 %	0.05A
	+ 5 V	0.6A	± 5 %	6A
	+ 3.3 V	0A	± 5 %	0.5A
Aux. Power Supply	+ 5 V	0A	+5 % / -3%	2A

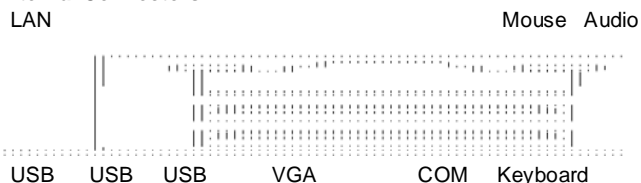
1) PS must support these load conditions in order to support low power processors states

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. Trusted Platform Module TPM V1.2 (Intel)

Special Features
 Silent Fan LT Independent temperature related processor fan and system fan supervision and 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® GMA4500 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
 Intel 82567LF Ethernet Controller with 10/100/1000 MBit/s, Wake-on-LAN (WoL) by interesting Packets, Link Status Change and Magic Packet™, PXE Support, BIOS MAC Address Display

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

D3011-A

Features	
Chipset	iQ43, ICH10D
Board Size	µBTX
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 ¹⁾ / CPU / AUX1 / AUX2	- / - / - / -
FAN controlled PSU ¹⁾ / 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 / HDD Encryption ✓ / -
 Logo Boot Option / Intel On Screen Branding ✓ / ✓
 High Efficient Core regulator design (85% @ 65W) ✓

Internal Connectors	
DIMM Sockets (DDR3 1066)	4
PCI Express x16 Slot (Gen. 2)	1
PCI Express x8 Slot (4 Lanes)	1
PCI Slots (32Bit, 33 MHz, Rev. 2.3)	2
SATA (300) / ATA (100) / Floppy	4 / 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)	-
USB (2.0, ~480 MB/s, 2 channels per connector)	3
Serial (FIFO, 16550 compatible)	-
FAN PSU ¹⁾ / CPU / AUX1 / AUX2	1 / 1 / 1 / -
SMBus (Case Temperature)	-
Intrusion (Case Open)	1
Parallel (EPP/ECP) Pin Connector ²⁾	1
Power 24 pin (BTX) / 4 pin (12V processor supply)	1 / 1

External Connectors	
VGA Sub D / DVI ³⁾	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)	6
Serial (RS232, FIFO, 16550 compatible)	1
Parallel (EPP/ECP) ²⁾	-

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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