

Data Sheet Fujitsu Mainboard D3161-A µATX

Classic Desktop Series

Powered by the Intel® Q75 Express Chipset supporting DDR3 1600 SDRAM Memory and 3^{rd} generation Intel® CoreTM i3 / i5 / i7 Processors (Socket LGA1155)

Designed for 24/7 continuous operation

Chipset:

Intel® Q75 Express Chipset

Processors:

Intel® Core™ i7 – 2xxx / i7-37xx processor series Intel® Core™ i5 – 2xxx / i5-3xxx processor series Intel® Core™ i3 – 2xxx / i3-32xx processor series Intel® Pentium® – G21xx / G6xx / G8xx proc. series Intel® Celeron® – G4xx / G5xx processor series

Memory:

DDR3 1066/1333/1600 SDRAM

Product Features:

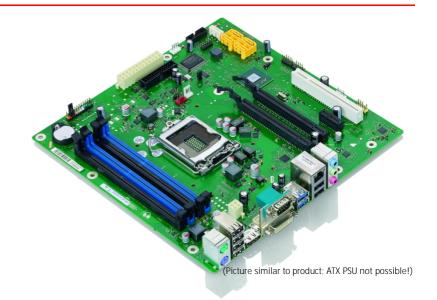
Intel® iAMT 3.2 (Standard Manageability)
Intel® HD Graphics (depends on processor)
PCI Express Gen3
Multichannel Audio & Intel GbE LAN onboard
USB 2.0 and USB 3.0 onboard
Trusted Platform Modul V1.2 (Infineon) onboard
Specific 12V-only Powersupply required

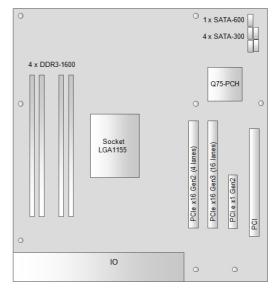


































Features and benefits

Board Size μATX: 9.6" x 9.6" (243.8 x 243.8 mm)

Chipset Intel® Q75 Express Chipset

Memory

4 DIMM Sockets (1.5V), 1GB - 32GB, Single Channel / Dual Channel DDR3-1066 (CL7) / DDR3-1333 (CL9) / DDR3-1600 (CL11) SDRAM, unbuffered, no ECC

Intel® Core™ i7 – 2xxx (32nm) and -37xx (22nm) processor series Intel® Core $^{\text{m}}$ i5 – 2xxx (32nm) and -3xxx (22nm) processor series

Intel® Core™ i3 - 2xxx (32nm) and -32xx (22nm) processor series Intel® Pentium® G8xx / G6xx / G21xx and Celeron® G5xx / G4xx processor series

Socket LGA1155, max. 95W TDP

(For details on supported processors please refer to our website)

Power Specification

Fujitsu 12V only concept adopted 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 Requirements

for onboard components (worst case)

Source	Voltage	Min. PS Load	Max.Voltage Tolerance	Cont./ Peak Mainboard Current
Main Power Supply	+ 12 V _{Rail1}	0.1 A	± 5 %	15 A / 18 A
Main Power Supply	+ 12 V _{Rail2}	0.1 A	± 5 %	15 A / 18 A
Aux. Power Supply	+ 11 V _{aux}	0 A	10.2 V-11.8 V	1 A

^{1) 18}A = Surge Current for 20 sec!

AMI Aptio 4.x (UEFI) BIOS

modified and adapted by Fujitsu Technology Solutions; Recovery BIOS, SM-BIOS (DMI), BIOS and CPU Microcode Update, 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, Boot Sequence Control, Serial/Parallel/USB- Port Access Protection, Boot Sector Virus Warning, Write Protection for Flash BIOS, EraseDisk (BIOS Feature), Trusted Platform Module.

Special Features

Silent Fan LT Independent temperature related processor fan and

system fan supervision

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

LAN Mouse 4x USB COM

2x USB 3.0 2x USB Audio Kbd DisplayPort DVI

Designed for 24 / 7 use

Longlife components for 24 / 7 continuous operation

Graphics

Intel® HD Graphics DX10.1 or DX11 (depends on installed processor)

Audio

Conexant CX20642, 5.1-channel, High Definition Audio Codec

LAN

Intel 82579V Ethernet Controller with 10/100/1000 MBit/s, iAMT 3.2, Wake-on-LAN (WoL) by interesting Packets, Link Status Change and Magic Packet™, PXÉ Support, BIOS MAC Address Display

1 Serial ATA III 600 Interface (up to 6GBit/s),

4 Serial ATA II 300 Interfaces (up to 3GBit/s), NCQ, AHCI

Factions	D21/1 A
Features	D3161-A
Chipset	iQ75
Board Size	μATX
VGA	optional
Stereo Audio / 5.1 Multichannel Audio	- / ü
Buzzer / int. Speaker Support	-/ü
LAN Gbit / 100 Mbit / 10 Mbit	ü/ü/ü
LAN ASF / DASH V1.1 / WoL / Boot / iAMT 3.2	-/ü/ü/ü/ü
SATA / ATA / RAID / eSATA-support	ü/-/-/ü
FireWire™ / USB 2.0 / USB 3.0	-/ü/ü
FAN monitored PSU 1) / CPU / AUX1 / AUX2	-/-/-
FAN controlled PSU 1) / CPU / AUX1 / AUX2	-/ü/ü/-
TEMP monitored CPU / ONB / OFFB	ü/ü/-
Special Features	
Silent Fan / Silent Fan LT / System Guard / Silent Drives	-/ü/ü/ü
Recovery BIOS / Desk Update / Multi Boot	ü/ü/ü
HDD Password / HDD Encryption / EraseDisk	ü/-/ü
Logo Boot Option / Intel On Screen Branding	ü/ü
High Efficiency Core Voltage Regulator Design	ü
Operating Mode 24-7 / 8-5 (hrs per day - days per week)	ü/-
Mainboard operating temperature range (chassis inside)	10°C – 45°C
Internal Connectors	
DIMM Sockets (DDR3-1600)	4
PCI Express x16 Slot (Gen3)	1
PCI Express x16 Slot (4 Lanes, Gen2) / x1 Slot (Gen2)	1/1
PCI Slots (32Bit, 33 MHz, Rev. 2.3)	1
SATA-600 / SATA-300 / ATA / Floppy	1/4/0/0
S/PDIF (digital Audio) OUT / IN	- / -
Frontpanel Audio (9-Pin, HD Audio)	1
FireWire™ (9-Pin, Intel standard header)	-
USB 2.0 channels / USB 3.0 channels	4 / 2
Serial (FIFO, 16550 compatible)	-
FAN PSU 1) / CPU / AUX1 / AUX2	-/1/1/-
SMBus (Case Temperature)	-
Intrusion (Case Open)	1
Parallel (EPP/ECP) Pin Connector 2)	1
ATX Power Supply / 12V-only PowerSupply	- / 1
External Connectors	
VGA Sub D ³⁾ / DVI-I / DisplayPort	-/1/1
Audio Mic. In / Line in / Line out (or driver configuration)	1/1/1
S/PDIF (digital Audio, cinch) OUT / IN	-/-
S/PDIF (digital Audio, optical) OUT	-
LAN (RJ-45)	1
PS/2 Mouse / Keyboard	1/1
LAN (RJ-45)	1
PS/2 Mouse / Keyboard	1/1
FireWire™ (6-Pin, IEEE 1394)	=
USB 2.0 / USB 3.0	6/2
Serial (RS232, FIFO, 16550 compatible)	1
Parallel (EPP/ECP) 2)	-

- Not supported by standard Power Supplies
- External parallel port possible via optional connector cable Via optional DVI-1 / VGA interface connector

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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.

Computing products

www.fujitsu.com/global/services/computing

- 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: www.fujitsu.com/global/about/environment



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