

# Data Sheet

## Fujitsu Mainboard D3076-S ATX

### Industrial Series

Powered by the Intel® Q67 Express Chipset supporting DDR3 1333 SDRAM Memory and 2<sup>nd</sup> generation Intel® Core™ i3 / i5 / i7 Processors (Socket LGA1155)  
Designed & approved for enhanced operating temperature range from 0°C to 60°C  
Designed & approved for 24/7 continuous operation

**Chipset:**

Intel® Q67 Express Chipset

**Processors:**

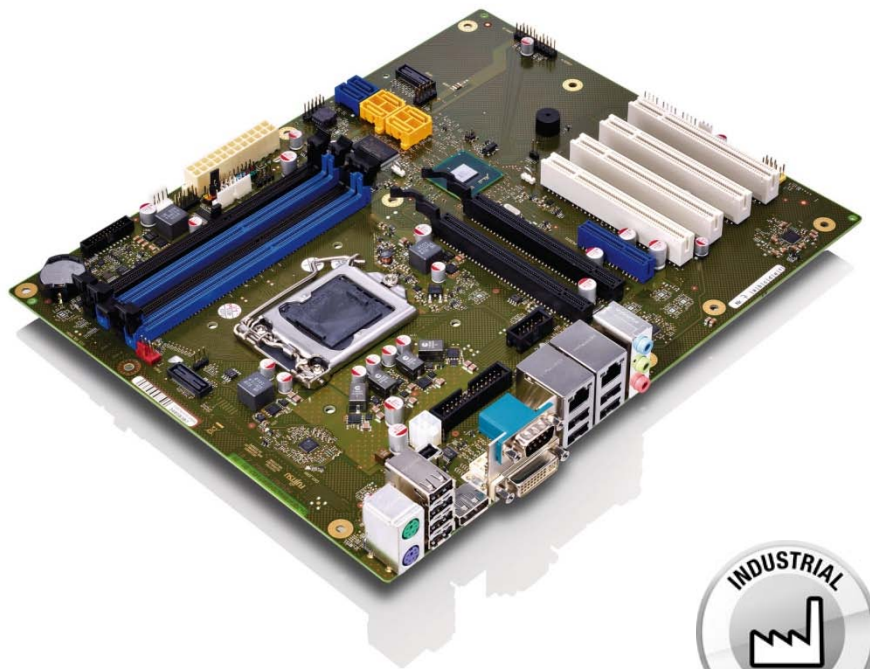
Intel® Core™ i7 – 2xxx processor series  
Intel® Core™ i5 – 2xxx processor series  
Intel® Core™ i3 – 2xxx processor series

**Memory:**

DDR3 1333/1066 SDRAM

**Product Features:**

Intel® VPro 2011 = Intel® iAMT 7 (CPU support required)  
Intel® HD Graphics (integrated in processor)  
8 Bit GPIO onboard  
PCI Express Gen2  
Multichannel Audio onboard  
2 x Intel GbE LAN onboard  
Infineon TPM V1.2 onboard  
Mainboard ready for EuP



# Features and benefits

<b>Board Size</b>	ATX: 9.6" x 12" (243.8 x 304.8 mm)
<b>Chipset</b>	Intel® Q67 Express Chipset
<b>Memory</b>	4 DIMM Sockets (1.5V), 1GB - 32GB, Single Channel or Dual Channel DDR3-1066 (CL7) / DDR3-1333 (CL9) SDRAM, unbuffered, no ECC
<b>Processor</b>	Intel® Core™ i7 – 2xxx processor series Intel® Core™ i5 – 2xxx processor series Intel® Core™ i3 – 2xxx processor series Compatible with Intel® FMB11B (65W) and FMB11A (95W), LGA1155. Prepared for future LGA1155 processors. (For details on supported processors please refer to our website)

<b>Power Specification</b>
ATX- 24 Pin or ATX- 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 / 2.5A Auxiliary Power required for USB Wake-Up from Save-to-RAM, Save-to-Disk

<b>Power Supply Requirements</b> for onboard components (worst case)					
Source	Voltage	Min. PS Load	Max. Voltage Tolerance	Mainboard Capacitive Load	Max. Mainboard Current
	+ 12V	0.1A	± 5 %	10.000µF	14A/18A 1)
Main Power	- 12V	0A	± 10 %	500µF	0.1A
Supply	+ 5V	0.2A	± 5 %	10.000µF	5A
	+ 3.3V	0A	± 5 %	6.000µF	2A
Aux. Power Supply	+ 5Vaux	0A	+5 % / -3%	7.000µF	2.5A

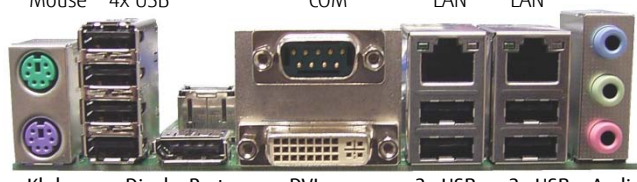
1) 18A = Surge Current for 20 sec!

<b>BIOS</b>
AMI UEFI BIOS modified and adapted by Fujitsu Technology Solutions; Recovery BIOS, BIOS and CPU Microcode Update, Quick Boot, Logo Boot, Quiet Boot, Plug & Play, DRAM and PCI Auto Configuration, S.M.A.R.T. Support

<b>Security Features</b>
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), Infineon Trusted Platform Module (TPM) V1.2.

<b>Special Features</b>	
Silent Fan	Independent temperature related processor fan and system fan supervision and control
System Guard	View and adjust Silent Fan 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

<b>External Connectors</b>					
Mouse	4x USB	COM	LAN	LAN	
Kbd	DisplayPort	DVI	2x USB	2x USB	Audio



<b>Designed for Industrial Applications</b>	
Longlife components	Designed for 24/7 use in industrial applications
Tin-plated PCB	Improved durability of PCB surface
Revision control	Strict control and pre-announcement
Extended lifecycle	Mainboard available for more than three years
Enhanced operating temperature range (0°C-60°C) 4)	

<b>Graphics</b>	Intel® HD Graphics DX10.1 (integrated in processor)
<b>Audio</b>	Conexant CX20642, 5.1-channel, High Definition Audio Codec
<b>LAN</b>	Intel 82579LM / Intel 82574L Ethernet Controller with 10/100/1000 MBit/s, iAMT, Wake-on-LAN (WoL) by interesting Packets, Link Status Change and Magic Packet™, PXE Support, BIOS MAC Address Display
<b>Drives</b>	2 Serial ATA III 600 Interfaces (up to 6GBit/s), 4 Serial ATA II 300 Interfaces (up to 3GBit/s), NCQ, AHCI, RAID 0/1/5/10

Features	D3076-S
Chipset	iQ67
Board Size	ATX
VGA	optional <sup>3)</sup>
Stereo Audio / 5.1 Multichannel Audio	- / ✓
Buzzer / int. Speaker Support	✓ / ✓
LAN Gbit / 100 Mbit / 10 Mbit	✓ / ✓ / ✓
LAN ASF / DASH / WoL / Boot / VPro 2011 (iAMT 7)	- / ✓ / ✓ / ✓ / ✓ / ✓
SATA / ATA / RAID / eSATA-support	✓ / - / ✓ / ✓ / ✓
FireWire™ / USB 2.0	- / ✓
FAN monitored PSU 1) / CPU / AUX1 / AUX2 / AUX3 1)	✓ / ✓ / ✓ / ✓ / ✓
FAN controlled PSU 1) / CPU / AUX1 / AUX2 / AUX3 1)	✓ / ✓ / ✓ / ✓ / ✓
TEMP monitored CPU / ONB1-5 / OFFB	✓ / ✓ / -
<b>Special Features</b>	
Silent Fan / Silent Fan LT / System Guard / Silent Drives	✓ / - / ✓ / ✓ / ✓
Recovery BIOS / Desk Update / Multi Boot	✓ / ✓ / ✓
HDD Password / HDD Encryption / EraseDisk	✓ / - / ✓
Logo Boot Option / Intel On Screen Branding	✓ / ✓
High Efficient Core regulator design	✓
Operating Mode 24-7 / 8-5 (hrs per day - days per week)	✓ / -
<b>Internal Connectors</b>	
DIMM Sockets (DDR3 1333)	4
PCI Express x16 Slot (Gen2)	1
PCI Express x16 Slot (4 Lanes, Gen2) / x8 Slot (1 Lane, Gen2)	1 / 1
PCI Slots (32Bit, 33 MHz, Rev. 2.3)	4
SATA-600 / SATA-300 / ATA / Floppy	2 / 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, 2 channels per connector) / USB Flashdrive	2 / 1
Serial (FIFO, 16550 compatible)	1
FAN PSU 1) / CPU / AUX1 / AUX2 / AUX3 1)	1 / 1 / 1 / 1 / 1
SMBus (Case Temperature)	-
Intrusion (Case Open) / GPIO (8Bit)	1 / 1
Parallel (EPP/ECP) Pin Connector 2)	1
Power 24 pin (BTX) / 4 pin (12V processor supply)	1 / 1
<b>External Connectors</b>	
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) OUT / IN	- / -
LAN (RJ-45)	2
PS/2 Mouse / Keyboard	1 / 1
FireWire™ (6-Pin, IEEE 1394)	-
USB (2.0, ~480MB/s)	8
Serial (RS232, FIFO, 16550 compatible)	1
Parallel (EPP/ECP) 2)	-

- 1) Not supported by standard Power Supplies; FAN PSU and FAN AUX3 cannot be used simultaneously (Selectable in BIOS Setup)
- 2) External parallel port possible via optional connector cable
- 3) Via optional DVI-I / VGA interface connector
- 4) Forced cooling required, see technical documentation for detailed requirements

# 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](http://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/](http://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](http://www.fujitsu.com/global/about/environment)



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