

# Data Sheet

## FUJITSU Mainboard D3400-B µATX

Classic Desktop Series



Powered by the Intel® H110 Express Chipset supporting DDR4 2133 SDRAM Memory and 6<sup>th</sup> generation Intel® Core™ i3 / i5 / i7 Processors (Socket LGA1151)

**Chipset:**

Intel® H110 Express Chipset

**Processors:**

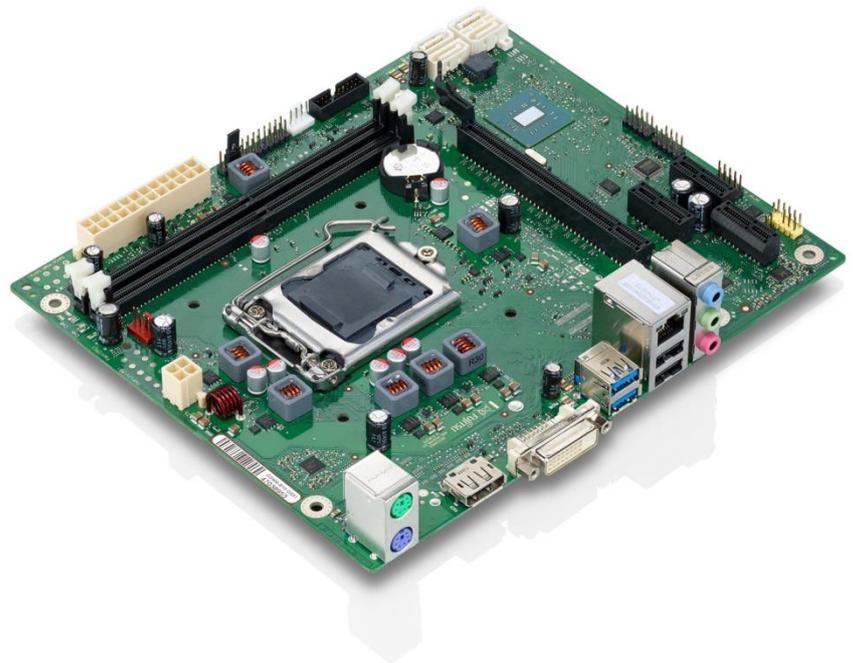
Intel® Core™ i7 / i5 / i3 – (6<sup>th</sup> gen.) processor series  
Future Intel® Pentium® / Celeron® processor series  
Socket LGA1151 – up to 65W TDP

**Memory:**

DDR4 2133 SDRAM (UDIMM)

**Product Features:**

Intel® HD Graphics (up to 2 digital displays)  
PCI Express Gen3  
Multichannel Audio & Realtek GbE LAN onboard  
USB 2.0 and USB 3.0 onboard  
Trusted Platform Module V2.0 (Intel integrated)



# Features and benefits

<b>Board Size</b>	ultra small µATX: 218 x 183 mm
<b>Chipset</b>	Intel® H110 Express Chipset
<b>Memory</b>	2 DIMM Sockets DDR4, max. 32GB, Dual Channel, 2133MHz (CL15), UDIMM, 1.2V/2.5V, 288-pin, non-ECC. Effective memory speed depends on installed processor
<b>Processor</b>	Intel® Core™ i7 / i5 / i3 – (6th generation) processor series Future Intel® Pentium® / Celeron® processor series Socket LGA1151, max. 65W TDP (For details on supported processors please refer to OEM FTP Server)

<b>Power Specification</b>
ATX- 24 Pin or ATX- 20 Pin + 4 Pin (12V) Power Connector required
Support for Soft-Off Power Supplies
12V and 3.3V Supply Voltage on PCIe Slots
3.3V Auxiliary Supply Voltage on PCIe 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 Requirements**  
for onboard components (worst case incl. processor, memory, w/o USB devices; w/o PCIe cards, w/o SATA drives)

Source	Voltage	Min. PS Load	Max. Voltage Tolerance	Mainboard Capacitive Load	Max. Mainboard Current
Main Power Supply	+ 12V	0.05A	± 5 %	5.000µF	8A/12A <sup>1)</sup>
	- 12V	0A	± 10 %	470µF	0.3A
	+ 5V	0.2A	± 5 %	3.000µF	6.0A
	+ 3.3V	0A	± 5 %	3.000µF	0.5A
Aux. Power	+ 5Vaux	0A	+5 % / -3%	3.000µF	2.5A

1) Max. Cont. Current = 8A; max. Surge Current = 10A (< 100sec) / 12A (< 10ms)

**BIOS**  
AMI Aptio 5.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 PCIe 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-/USB- Port Access, Boot Sector Virus Warning, Write Protection for Flash BIOS, EraseDisk (optional BIOS Feature)  
Trusted Platform Module (Intel TPM V2.0, chipset integrated).

<b>Special Features</b>	
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

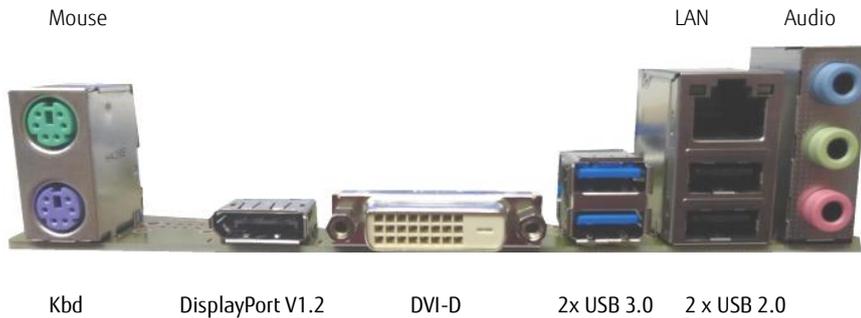
Supported / Released Operating Systems		
OS	"Runnable"	"Tested/Released by Fujitsu"
MS Windows XP	--	--
MS Windows 7-32	X	X
MS Windows 7-64	X	X
MS Windows 8.1-64	X	X
MS Windows 10-64	X	X
Linux-32	X	tbd
Linux-64	X	tbd

<b>Graphics</b>
Intel® HD Graphics (depends on installed processor), DX12. Supporting up to 2 independent digital displays
<b>Audio</b>
Realtek ALC671, 5.1-channel, High Definition Audio Codec
<b>LAN</b>
Realtek RTL8111G 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
<b>Drives</b>
4 x Serial ATA III 600 Interface (up to 6Gbit/s), NCQ, AHCI

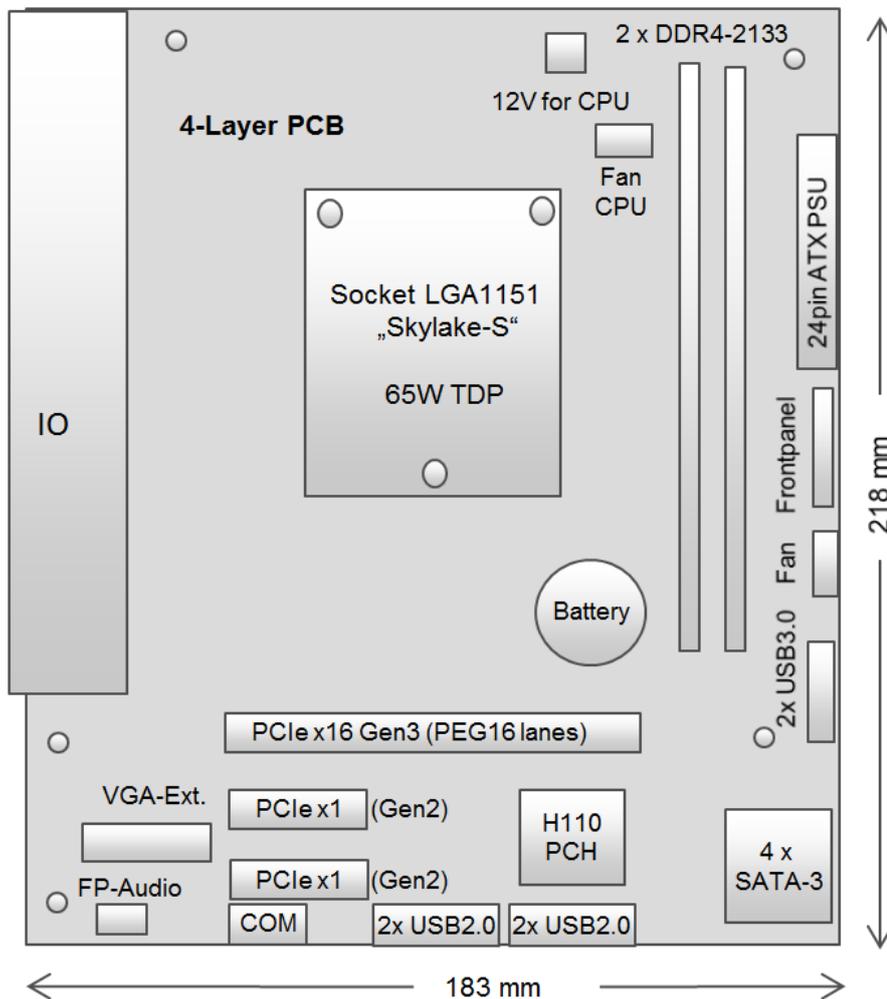
Features	D3400-B
Chipset	iH110
Board Size	ultra small µATX
VGA <sup>1)</sup> / DVI-I / DVI-D / DP V1.2 / 2 <sup>nd</sup> DP V1.2 / LVDS	- / - / ✓ / ✓ / - / -
Stereo Audio / 5.1 Multichannel Audio	- / ✓
Buzzer / int. Speaker Support	- / ✓
LAN Gbit / 100 Mbit / 10 Mbit / WoL / LAN Boot	✓ / ✓ / ✓ / ✓ / ✓ / ✓
iAMT 11.0 vPro / iAMT Standard / DASH V1.0	- / - / -
SATA / ATA / RAID / eSATA-support / M.2 (PCIe x4 or SATA)	✓ / - / - / ✓ / ✓ / -
FireWire™ / USB 2.0 / USB 3.0	- / ✓ / ✓ / ✓
FAN monitored & controlled PSU / CPU / AUX1 / AUX2	- / ✓ / ✓ / ✓ / -
TEMP monitored CPU / onboard sensors / external sensor	✓ / ✓ / ✓ / -
<b>Special Features</b>	
Silent Fan / Silent Fan LT / System Guard / Silent Drives	- / ✓ / ✓ / ✓ / ✓
Recovery BIOS / Desk Update / Multi Boot	✓ / ✓ / ✓ / ✓
HDD Password / HDD Encryption / EraseDisk <sup>2)</sup> / TPM	✓ / - / ✓ / ✓ / ✓
BIOS POST Watchdog / BIOS Boot Watchdog / OS HW Watchdog	- / - / -
Logo Boot Option / Intel On Screen Branding	✓ / ✓
High Efficiency Core Voltage Regulator Design	-
Operating Mode 24-7 / 8-5 (hrs per day - days per week)	- / ✓
Mainboard operating temperature range (chassis inside)	10°C – 45°C
<b>Internal Connectors</b>	
DIMM Sockets (DDR4-2133)	2
PCI Express x16 Slot (Gen3)	1
PCI Express x1 Slot (Gen2) / PCI Express x1 Slot (Gen3)	2 / -
PCI Slots (32Bit, 33 MHz, Rev. 2.3)	-
SATA-600 / SATA-300 / ATA / Floppy / M.2 SSD	4 / - / - / - / -
S/PDIF (digital Audio) OUT / IN	- / -
Frontpanel Audio (9-Pin, HD Audio)	1
USB 2.0 channels / USB 3.0 channels / USB Stick (3.0)	4 / 2 / -
Serial (COM2, RS232, FIFO, 16550 compatible)	1
FAN PSU / CPU / AUX1 / AUX2	- / 1 / 1 / -
SMBus (Case Temperature)	-
Intrusion (Case Open)	-
Parallel Port Pin Connector	-
ATX Power Supply (24 pin + 4 pin) / 12V-only Power Supply <sup>3)</sup>	- / ✓
<b>External Connectors</b>	
VGA Sub D <sup>1)</sup> / DVI-I / DVI-D / DisplayPort V1.2	- / - / 1 / 1
Audio Mic. In / Line in / Line out (or driver configuration)	1 / 1 / 1
LAN (RJ-45)	1
PS/2 Mouse / Keyboard	1 / 1
USB 2.0 / USB 3.0	2 / 2
Serial (COM1, RS232, FIFO, 16550 compatible)	-
Parallel (EPP/ECP)	-

- VGA possible via optional converter board D3463 or DP-VGA-converter (dongle)
- Optional BIOS Feature, License required
- Plus additional onboard drive power connector

External Connectors



Connector / Socket Diagram



Further industrial products offered by Fujitsu

- Connectors
- KVM Switches
- Relays
- Touch Panels
- Thermal Printers
- Wireless Modules



24 Volt Kiosk Printers



Multi-Input Touch Panels

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 Netherlands

# More information

## Fujitsu products, solutions & services

### Products

[www.fujitsu.com/global/products/](http://www.fujitsu.com/global/products/)  
In addition to the Fujitsu [Product name], Fujitsu offers a full portfolio of other computing products.

### Computing products

- Storage systems: ETERNUS
- Server: PRIMERGY, PRIMEQUEST, Fujitsu SPARC M10, BS2000/OSD Mainframe
- Client Computing Devices: LIFEBOOK, STYLISTIC, ESPRIMO, FUTRO, CELSIUS
- Peripherals: Fujitsu Displays, Accessories
- Software
- Network

Product Support Services with different service levels agreements are recommended to safeguard each product and ensure smooth IT operation.

### Solutions

<http://www.fujitsu.com/global/solutions>  
The Fujitsu solutions combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships. Fujitsu's Solutions include parts of one or more activity groups (e.g., planning, implementation, support, management, and training services) and are designed to solve a specific business need.

**Infrastructure Solutions** are customer offerings created by bringing Fujitsu's best products, services and technologies together with those from partners to deliver benefit to our customers' businesses.

**Industry Solutions** are tailored to meet the needs of specific verticals.

**Business and Technology Solutions** provide a variety of technologies developed to tackle specific business issues such as security and sustainability, across many verticals.

### Services

[www.fujitsu.com/global/services/](http://www.fujitsu.com/global/services/)  
Several customizable Fujitsu Service offerings ensure that IT makes a real difference and delivers true business value. We do this by leveraging our extensive experience in managing large, complex, transformational IT programs to help clients in planning, delivering and operating IT services in a challenging and changing business environment.

**Application Services** support the development, integration, testing, deployment and on-going management of both custom developed and packaged applications. The services focus on delivering business and productivity improvements for organizations.

**Business Services** respond to the challenge of planning, delivering and operating IT in a complex and changing IT environment.

**Managed Infrastructure Services** enable customers to deliver the optimal IT environment to meet their needs – achieving high levels of IT service quality and performance for data center and end user environments.

## Fujitsu green policy innovation

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



## More information

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[www.fujitsu.com/fts/mainboards/](http://www.fujitsu.com/fts/mainboards/)

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