

Data Sheet

FUJITSU Mainboard D3410-B µATX

Classic Desktop Series



Powered by the Intel® B150 Express Chipset supporting DDR4 2133 SDRAM Memory and 6th generation Intel® Core™ i3 / i5 / i7 Processors (Socket LGA1151)

Designed for 24/7 continuous operation

Chipset:

Intel® B150 Express Chipset

Processors:

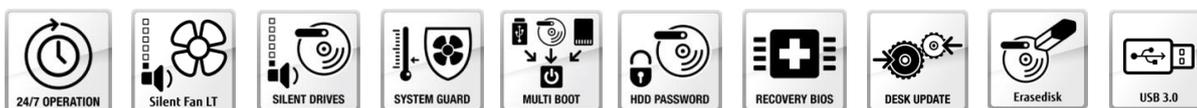
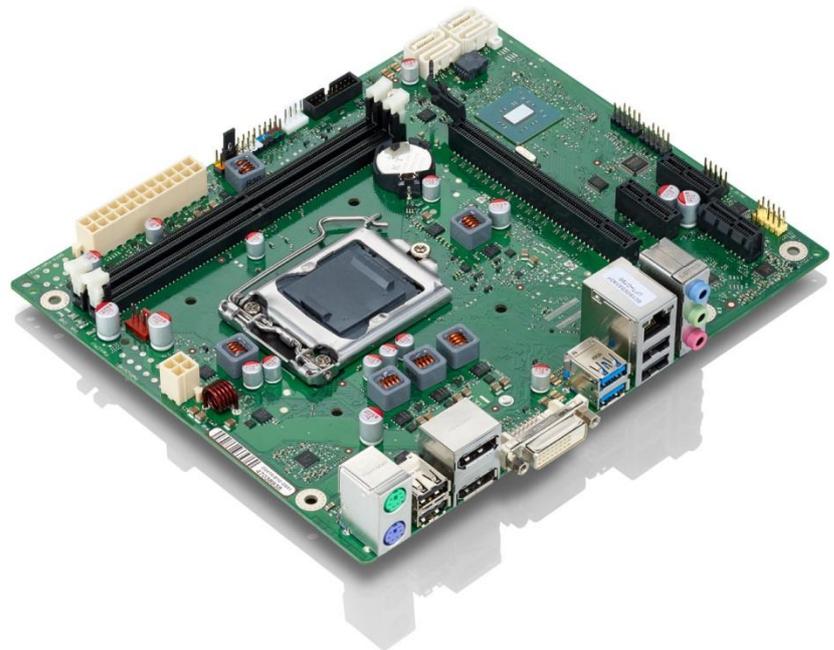
Intel® Core™ i7 / i5 / i3 – (6th gen.) processor series
Future Intel® Pentium® / Celeron® processor series
Socket LGA1151 – up to 65W TDP

Memory:

DDR4 2133 SDRAM (UDIMM)

Product Features:

Intel® HD Graphics (up to 3 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

| | |
|-------------------|---|
| Board Size | ultra small µATX: 218 x 183 mm |
| Chipset | Intel® B150 Express Chipset |
| Memory | 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 |
| Processor | 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) |

| |
|--|
| Power Specification |
| 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, 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 ¹⁾ |
| | - 12V | 0A | ± 10 % | 470µF | 0.3A |
| | + 5V | 0.2A | ± 5 % | 3.000µF | 6.0A |
| Aux. Power | + 3.3V | 0A | ± 5 % | 3.000µF | 0.5A |
| | + 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-/ Parallel-/ 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).

| | |
|-------------------------|--|
| 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 |

| 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 |

Designed for 24 / 7 use
Longlife components for 24 / 7 continuous operation @ 45°C

Graphics
Intel® HD Graphics (depends on installed processor), DX12.
Supporting up to 3 independent digital displays

Audio
Realtek ALC671, 5.1-channel, High Definition Audio Codec

LAN
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

Drives
4 x Serial ATA III 600 Interface (up to 6Gbit/s), NCQ, AHCI

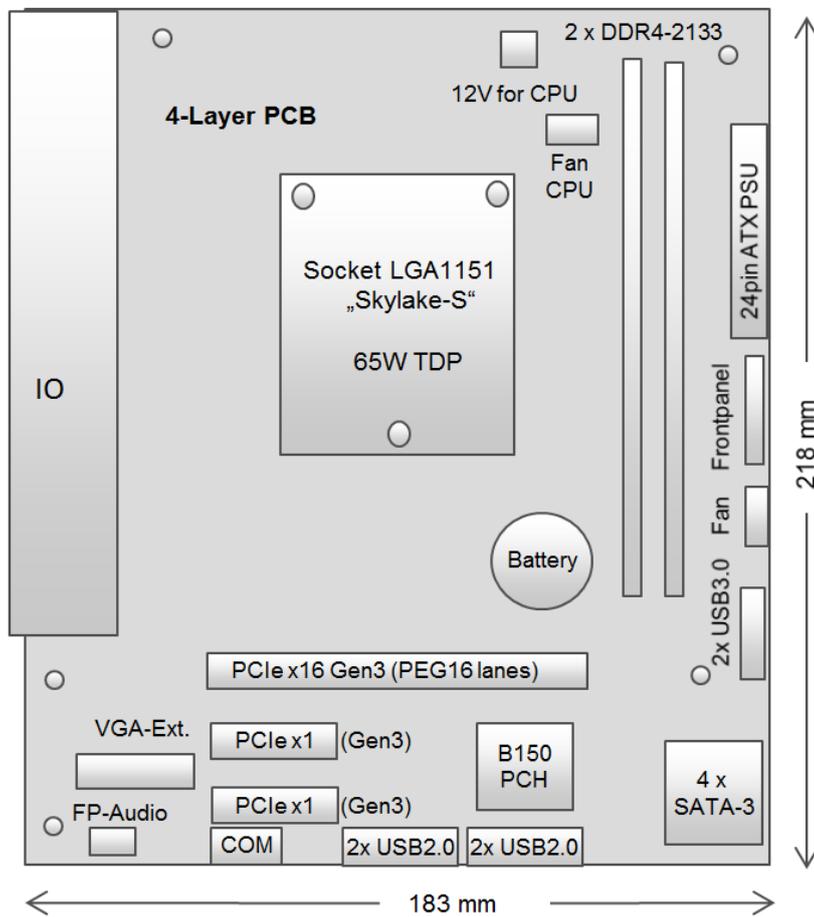
| Features | D3410-B |
|--|-----------------------|
| Chipset | iB150 |
| Board Size | ultra small µATX |
| VGA ¹⁾ / DVI-I / DVI-D / DP V1.2 / 2 nd DP V1.2 / LVDS | - / - / ✓ / ✓ / ✓ / - |
| Stereo Audio / 5.1 Multichannel Audio | - / ✓ |
| Buzzer / int. Speaker Support | - / ✓ |
| LAN Gbit / 100 Mbit / 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 | ✓ / ✓ / - |
| Special Features | |
| Silent Fan / Silent Fan LT / System Guard / Silent Drives | - / ✓ / ✓ / ✓ / ✓ |
| Recovery BIOS / Desk Update / Multi Boot | ✓ / ✓ / ✓ / ✓ |
| HDD Password / HDD Encryption / EraseDisk ²⁾ / 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 |
| Internal Connectors | |
| 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 | ✓ / - |
| External Connectors | |
| VGA Sub D ¹⁾ / DVI-I / DVI-D / DisplayPort V1.2 | - / - / 1 / 2 |
| 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 | 4 / 2 |
| Serial (COM1, RS232, FIFO, 16550 compatible) | - |
| Parallel (EPP/ECP) | - |

1. VGA possible via optional converter board Dxyz or DP-VGA-converter (dongle)
2. Optional BIOS Feature, License required

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

Contact:

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 Fax: +31 (0)23 556 0950
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 Address: Diamantlaan 25
 2132 WV Hoofddorp
 Netherlands

More information

Fujitsu products, solutions & services

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- 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.

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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/
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