

Data Sheet Fujitsu Mainboard D3240-B μ ATX

Classic Desktop Series



Powered by the Intel® H81 Express Chipset supporting DDR3 1600 SDRAM Memory and 4th generation Intel® Core™ i3 / i5 / i7 Processors (Socket LGA1150)

Chipset:

Intel® H81 Express Chipset

Processors:

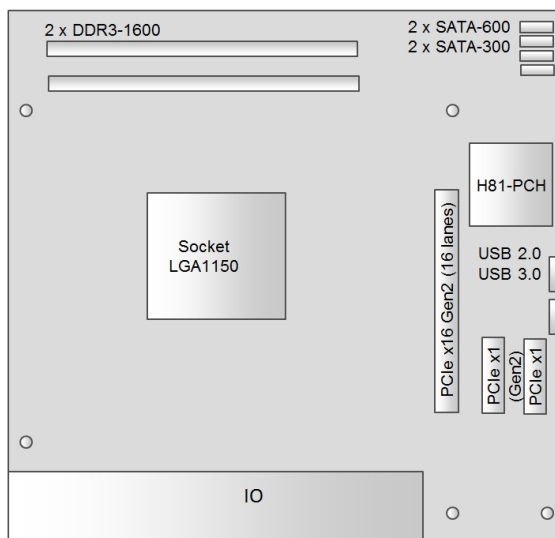
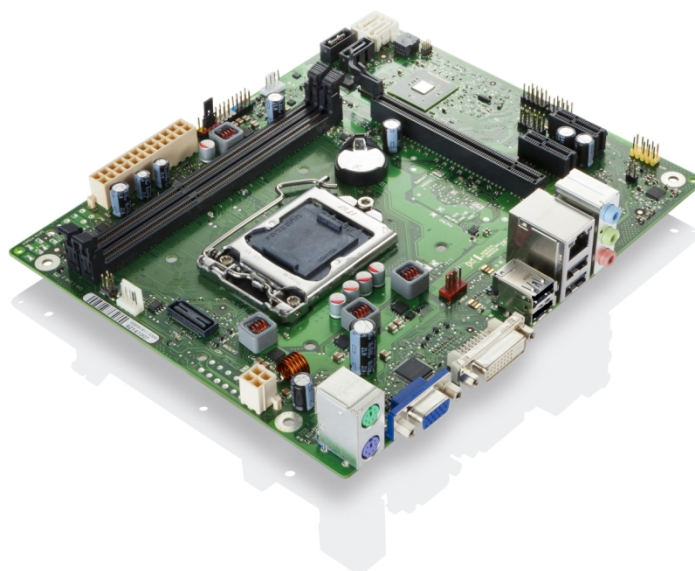
Intel® Core™ i7 / i5 / i3 – 4xxx processor series
Intel® "TE" Haswell-based embedded series
Intel® Pentium® – G3xxx processor series
Intel® Celeron® – G18xx processor series

Memory:

DDR3 1333/1600 SDRAM

Product Features:

Intel® HD Graphics (e.g. HD4600)
PCI Express Gen2
Multichannel Audio & Intel GbE LAN onboard
USB 2.0 and USB 3.0 onboard



Features and benefits

| | |
|------------|--|
| Board Size | ultra small µATX: 218 x 183 mm |
| Chipset | Intel® H81 Express Chipset |
| Memory | 2 DIMM Sockets (1.5V), 1GB - 16GB, Single Channel / Dual Channel DDR3-1333 (CL9) / DDR3-1600 (CL11) SDRAM, unbuffered, no ECC |
| Processor | Intel® Core™ i7 / i5 / i3 – 4xxx processor series Intel® "TE" Haswell-based embedded processor series Intel® Pentium® – G3xxx processor series Intel® Celeron®- G18xx processor series Socket LGA1150, max. 95W TDP (For details on supported processors please refer to our website) |

Power Specification
 ATX- 24 Pin or ATX- 20 Pin Power Supply required
 Support for Soft-Off Power Supplies
 3.3V Auxiliary Supply Voltage on PCIe Slots (Wake-Up Function)
 On board CPU Core Voltage Regulator

Power Supply Requirements
 for onboard components (worst case)

| Source | Voltage | Min. PS Load | Max. Voltage Tolerance | Mainboard Capacitive Load | Max. Mainboard Current |
|-------------------|---------|--------------|------------------------|---------------------------|------------------------|
| Main Power Supply | + 12V | 0.05A | ± 5 % | 10.000µF | 14A/18A ¹⁾ |
| | - 12V | 0A | ± 10 % | 500µF | 0.3A |
| | + 5V | 0.2A | ± 5 % | 10.000µF | 10A |
| | + 3.3V | 0A | ± 5 % | 6.000µF | 2A |
| Aux. Power | + 5Vaux | 0A | + 5 % / -3% | 7.000µF | 2.5A |

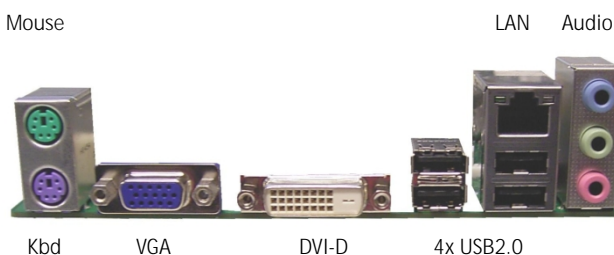
¹⁾ 18A = Surge Current for 20 sec!

BIOS
 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 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, USB- Port Access Protection, Boot Sector Virus Warning, Write Protection for Flash BIOS, EraseDisk (optional BIOS Feature)

| Special Features | Description |
|------------------|--|
| 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



| | |
|-----------------|--|
| Graphics | Intel® HD Graphics (e.g. HD4600, depends on installed processor), DX11.1 |
| 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 | 2 Serial ATA III 600 Interface (up to 6Gbit/s), 2 Serial ATA II 300 Interface (up to 6Gbit/s), NCQ, AHCI |

| Features | D3240-B |
|---|-------------------|
| Chipset | iH81 |
| Board Size | ultra small µATX |
| VGA / DVI-I / DVI-D / DisplayPort V1.2 / LVDS | ü / - / ü / - / - |
| Stereo Audio / 5.1 Multichannel Audio | - / ü |
| Buzzer / int. Speaker Support | - / - |
| LAN Gbit / 100 Mbit / 10 Mbit | ü / ü / ü |
| LAN ASF / DASH V1.1 / WoL / Boot / iAMT | - / - / 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 | - / ü / ü / - |
| 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 |
| HDD Password / HDD Encryption / EraseDisk ²⁾ / TPM | ü / - / ü / - |
| BIOS POST Watchdog / BIOS Boot Watchdog / OS HW Watchdog | - / - / - |
| Logo Boot Option / Intel On Screen Branding | ü / ü |
| High Efficiency Core Voltage Regulator Design | - |
| 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) | 2 |
| PCI Express x16 Slot (Gen3) / PCI Express x16 Slot (Gen2) | - / 1 |
| PCI Express x16 Slot (4 Lanes, Gen2) / x1 Slot (Gen2) | - / 2 |
| PCI Slots (32Bit, 33 MHz, Rev. 2.3) | - |
| SATA-600 / SATA-300 / ATA / Floppy | 2 / 2 / - / - |
| 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 / USB Stick (2.0) | 2 / 2 / - |
| Serial (FIFO, 16550 compatible) | - |
| FAN PSU ¹⁾ / CPU / AUX1 / AUX2 | - / 1 / 1 / - |
| SMBus (Case Temperature) | - |
| Intrusion (Case Open) | - |
| Parallel (EPP/ECP) Pin Connector | - |
| ATX Power Supply (24 pin + 4 pin) / 12V-only PowerSupply | ü / - |
| External Connectors | |
| VGA Sub D / DVI-I / DVI-D / DisplayPort V1.2 | 1 / - / 1 / - |
| Audio Mic. In / Line in / Line out (or driver configuration) | 1 / 1 / 1 |
| S/PDIF (digital Audio) OUT / IN | - / - |
| LAN (RJ-45) | 1 |
| PS/2 Mouse / Keyboard | 1 / 1 |
| USB 2.0 / USB 3.0 | 4 / 0 |
| Serial (RS232, FIFO, 16550 compatible) | - |
| Parallel (EPP/ECP) | - |

1) Not supported by standard Power Supplies
 2) EraseDisk = optional BIOS feature (license required)

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.

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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.

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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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