Data Sheet FUJITSU Mainboard D3543-S Mini-ITX

Intel® embedded Gemini Lake SoC (System on Chip, 10W TDP) for DDR4 2400 SDRAM Memory Enhanced operating temperature range from 0°C to 60°C

Processors (SoC):

Intel® Celeron® Processor J4005 (DC @2.0GHz / 2.7GHz), integrated Intel® UHD Graphics 600 (12EUs @700MHz) Intel® Celeron® Processor J4105 (QC @1.5GHz / 2.5GHz), integrated Intel® UHD Graphics 600 (12EUs @750MHz) Intel® Pentium® Silver Processor J5005 (QC @1.5GHz / 2.8GHz), integrated Intel® UHD Graphics 605 (18EUs @800MHz) 10W TDP

Memory:

2 x DDR4 2400 SDRAM (SO-DIMM)

Product Features:

Intel® UHD Graphics 600/605 (within SoC) 2x DisplayPort V1.2a Dual Channel LVDS (24Bit) and eDP V1.4 onboard 8 Bit GPIO & HD Audio onboard USB 2.0 and USB 3.1 (gen1) onboard 2x SATA III Onboard support for M.2 SSD (SATA/PCIe) Onboard support for M.2 WLAN/Bluetooth module Dual GbE LAN onboard Intel® integrated TPM V2.0 onboard WideRange internal/external DC Input (8V - 36V) HW Watchdog onboard RS-232/485/422 support onboard







Features and benefits

Board Size	Mini-ITX: 6.7" x	6.7" (170 x	170 mm)					
		Processo	r (SoC)	Graphics		Метогу	Graphics	
Mainboard Versions	D3543-S1	Intel® Celeron® J4005 (Dual Core) 2.0GHz / 2.7GHz ¹⁾		Intel® UHD 600 12EUs; max. 8GB 250MHz / 700MHz ²⁾			2 x DP V1.2 max. 4096 x 2160 @60Hz 1 x eDP V1.4	
	D3543-S2	Intel [®] Celeron [®] J4105 (Quad Core) 1.5GHz / 2.5GHz ¹⁾		Intel [®] UHD 600 12EUs; max. 8GB 250MHz / 750MHz ²⁾		DDR4 / 2400 two sockets max. 24GB	2 lanes max. 1920 x 1200 1 x LVDS 24Bit	
	D3543-S3	Intel® Pentium® Silver J5005 (Quad Core) 1.5GHz / 2.8GHz ¹⁾		Intel [®] UHD 605 18EUs; max. 8GB 250MHz / 800MHz ²⁾			Dual Channel max. 1920 x 1200 max. 3 x independent	
		e Frequency / Burst Frequency		2) Graphics Base Frequency /			display	
				· · ·	quency	max. Dynamic rie	equency	
Memory	2 x SO DIMM Socket (1.2V), max. 24GB, DDR4 - 2400 (CL17) / 2133 (CL15) SDRAM, unbuffered, non-ECC							
Power Specification	External DC Input 8V-36V (5A max. / 100W max.)							
· · · · · · · · · · · · · · · · · · ·	Internal DC Input 8V-36V (8A max. / 100W max.)							
	Onboard SoC a	nd system vo	oltage regul	ators (high efficie	ency)			
Power Supply Requirements	Source	e Voltage Min. PSI Range Load		Max.Voltage typ. Mainboard Tolerance Input Power 1)		max. Mainboard Input Power ²⁾		
	DC-IN (wide range)	8-36V	0A	± 5 %		W - 15W	100W	
	2) Mainboar	, rd incl. Memory,	M.2 SATA SSD,	SSD (MS Windows 10 any USB Devices, an ower requirements			ATA devices	
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 Con- figuration, BIOS Support for S.M.A.R.T., Advanced Power Management, ACPI S3/S4, Wake on time from S5. Boot support for M.2 SSD (AHCI / NVME) BIOS integrated HW Diagnostic Tool, Watchdog Support No legacy OS support, no MBR installation (UEFI only due to Intel restrictions)							
Security Features	,	t Sector Viru		ord, Boot Sequen Vrite Protection f			SB- Port Access isk (BIOS Feature),	

Special Features	Silent Fan		emperature related processor fan and				
		system fan supervision					
	System Guard	View Silent Fan features					
	Silent Drives		n for optical and hard disk drives				
	Recovery BIOS		orrupted BIOS				
	Desk Update Simple driver update with Driver & Utilities DV						
	Multi Boot Comfortable boot from any boot device						
	HDD PasswordAccess protection for disk drivesAlways OnReliable power-on whenever voltage is connectedNever OffOption to prevent the system from being shut down						
	CSA / UL Compliance Upon request: cTÜVus acc. IEC62368-1						
	FCC Compliance	FCC-B verified					
Operating Systems	OS	"Runnable"	"Tested/Released by Fujitsu"				
	MS Windows 10-64 RS1 ¹ / RS2 ¹	Х					
	MS Windows 10-64 RS3	Х	Х				
	MS Windows 10-64 RS4 / RS5	X					
	Linux-64	Х	basic functional test				
	Important Note: Legacy OS / MBR installation (DOS, MS Windows 7,) is not supported due to Intel restrictions						
Designed for 24 / 7 use	Longlife components for 24 / 7 use (0°C – 60°C) in industrial applications Revision control & Extended Lifecycle (min. 5 years + 1 year e X tended L ife C ycle option)						
Graphics	Integrated Intel® UHD Graphics 600/605 2 x DisplayPort V1.2a / 1 x embedded DisplayPort (eDP) 1.4 / 1 x Dual-Channel 24bit LVDS						
	Supports up to 3 x independent display						
	Following max. display combinations are supported:						
	1 x DisplayPort (external) + 1 x LVDS (internal) + 1 x embedded DisplayPort (internal)						
	2 x DisplayPort (DP, external) + 1 x embedded DisplayPort (eDP, internal)						
	Note: Simultaneous use of LVDS and DP2 (upper port) is not possible						
	Realtek ALC671 5.1-channel, High Definition Audio Codec						
Audio	Realtek ALC671 5.1-channel, Hig	gh Definition Aud	lio Codec				
Audio LAN	Realtek ALC671 5.1-channel, Hig 1 x Intel i210 with 10/100/1000/	-	lio Codec				
	1 x Intel i210 with 10/100/1000/	MBit/s,	lio Codec Status Change and Magic Packet™,				
	1 x Intel i210 with 10/100/1000/	MBit/s, ng Packets, Link	Status Change and Magic Packet™,				
	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti	MBit/s, ng Packets, Link IAC Address Disp	Status Change and Magic Packet™,				
	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M	- MBit/s, ng Packets, Link IAC Address Disp 00/1000 MBit/s,	Status Change and Magic Packet™, lay				
	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10	- MBit/s, ng Packets, Link IAC Address Disp D0/1000 MBit/s, ng Packets, Link	Status Change and Magic Packet™, lay Status Change and				
LAN	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte	MBit/s, ng Packets, Link IAC Address Disp D0/1000 MBit/s, ng Packets, Link DS MAC Address Irface (up to 6GB	Status Change and Magic Packet™, lay Status Change and Display it/s), NCQ, AHCI;				
LAN	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO	MBit/s, ng Packets, Link IAC Address Disp D0/1000 MBit/s, ng Packets, Link DS MAC Address Irface (up to 6GB	Status Change and Magic Packet™, lay Status Change and Display it/s), NCQ, AHCI;				
LAN	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte	MBit/s, ng Packets, Link IAC Address Disp D0/1000 MBit/s, ng Packets, Link DS MAC Address Inface (up to 6GB 60 / 2280) for fol	Status Change and Magic Packet™, lay Status Change and Display it/s), NCQ, AHCI;				
AN	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet [™] , PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte 1 x M.2 Key B socket (2242 / 226	MBit/s, ng Packets, Link NAC Address Disp D0/1000 MBit/s, ng Packets, Link DS MAC Address Frface (up to 6GB 60 / 2280) for fol odules	Status Change and Magic Packet™, lay Status Change and Display it/s), NCQ, AHCI; lowing applications:				
LAN	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte 1 x M.2 Key B socket (2242 / 226 SATA based M.2 SSD m PCIe based M.2 SSD m	MBit/s, ng Packets, Link AC Address Disp 20/1000 MBit/s, ng Packets, Link DS MAC Address frface (up to 6GB 60 / 2280) for fol odules odules (one PCI I	Status Change and Magic Packet™, lay Status Change and Display it/s), NCQ, AHCI; lowing applications: ane)				
LAN	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte 1 x M.2 Key B socket (2242 / 226 SATA based M.2 SSD m PCIe based M.2 SSD m Specific M.2 PCIe-based	MBit/s, ng Packets, Link AC Address Disp 20/1000 MBit/s, ng Packets, Link DS MAC Address frface (up to 6GB 60 / 2280) for fol odules odules (one PCI I	Status Change and Magic Packet™, lay Status Change and Display it/s), NCQ, AHCI; lowing applications:				
LAN	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte 1 x M.2 Key B socket (2242 / 226 SATA based M.2 SSD m PCIe based M.2 SSD m Specific M.2 PCIe-based Boot support: AHCI / NVME	MBit/s, ng Packets, Link AC Address Disp D0/1000 MBit/s, ng Packets, Link DS MAC Address frface (up to 6GB 60 / 2280) for fol odules odules odules (one PCI I d extension mod	Status Change and Magic Packet™, lay Status Change and Display it/s), NCQ, AHCI; lowing applications: ane) ules like LAN, SATA, COM, etc.				
LAN	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte 1 x M.2 Key B socket (2242 / 226 • SATA based M.2 SSD m • PCIe based M.2 SSD m • Specific M.2 PCIe-based Boot support: AHCI / NVME Notes: M.2 (SATA mode only) is	MBit/s, ng Packets, Link AC Address Disp 20/1000 MBit/s, ng Packets, Link DS MAC Address I offace (up to 6GB 50 / 2280) for fol odules odules (one PCI I d extension mod	Status Change and Magic Packet™, lay Status Change and Display it/s), NCQ, AHCI; lowing applications: ane) ules like LAN, SATA, COM, etc.				
LAN Drives / Modules	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte 1 x M.2 Key B socket (2242 / 226 • SATA based M.2 SSD m • PCIe based M.2 SSD m • Specific M.2 PCIe-based Boot support: AHCI / NVME Notes: M.2 (SATA mode only) is Simultaneous use of M.2	MBit/s, ng Packets, Link AC Address Disp 20/1000 MBit/s, ng Packets, Link DS MAC Address I erface (up to 6GB 60 / 2280) for fol odules odules (one PCI I d extension mod shared with SAT 2280 modules <u>a</u>	Status Change and Magic Packet™, lay Status Change and Display it/s), NCQ, AHCI; lowing applications: ane) ules like LAN, SATA, COM, etc. A port 1 ind M.2 2230 (WLAN/Bluetooth) possible!				
LAN Drives / Modules	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte 1 x M.2 Key B socket (2242 / 226 • SATA based M.2 SSD m • PCIe based M.2 SSD m • PCIe based M.2 SSD m • Specific M.2 PCIe-based Boot support: AHCI / NVME Notes: M.2 (SATA mode only) is Simultaneous use of M.2 1 x M.2 Key E socket (WLAN / BIO	MBit/s, ng Packets, Link NAC Address Disp D0/1000 MBit/s, ng Packets, Link DS MAC Address S MAC Address of / 2280) for fol odules odules odules (one PCI I d extension mod shared with SAT 2280 modules <u>a</u> uetooth), mecha	Status Change and Magic Packet [™] , lay Status Change and Display it/s), NCQ, AHCI; lowing applications: ane) ules like LAN, SATA, COM, etc. A port 1 ind M.2 2230 (WLAN/Bluetooth) possible! nical support for 2230				
	1 x Intel i210 with 10/100/1000/ Wake-on-LAN (WoL) by interesti PXE and iSCSI supported, BIOS M 1 x Realtek RTL8111G with 10/10 Wake-on-LAN (WoL) by interesti Magic Packet™, PXE support, BIO 2 x Serial ATA (SATA) III 600 Inte 1 x M.2 Key B socket (2242 / 226 SATA based M.2 SSD m PCIe based M.2 SSD m Specific M.2 PCIe-based Boot support: AHCI / NVME Notes: M.2 (SATA mode only) is Simultaneous use of M.2	MBit/s, ng Packets, Link NAC Address Disp D0/1000 MBit/s, ng Packets, Link DS MAC Address S MAC Address of / 2280) for fol odules odules odules (one PCI I d extension mod shared with SAT 2280 modules <u>a</u> uetooth), mecha	Status Change and Magic Packet [™] , lay Status Change and Display it/s), NCQ, AHCI; lowing applications: ane) ules like LAN, SATA, COM, etc. A port 1 ind M.2 2230 (WLAN/Bluetooth) possible! nical support for 2230				

 $^{\rm 1}$ Long-term driver update support for RS1 (LTSB) and RS2 is not guaranteed by Intel

LVDS	LVDS Controller Realtek RTD2136R (DisplayPort to LVDS converter)					
Mini-PCle	1 x mini PCIe socket (PCIe / USB), mechanical support for full and half size mini PCIe cards Supports modules with mini PCIe x1 (Gen2) and USB 2.0 interface					
Features	Chipset	Intel Gemini Lake SoC				
D3543-S (Mini-ITX)	DP V1.2a / 2 nd DP V1.2a / LVDS / eDP V1.4 / HDMI / DVI / VGA	✓ / ✓ / ✓ / ✓ / - / - / -				
	Buzzer / int. Speaker Support (mono) ² / 5.1 Multichannel Audio	$\checkmark \checkmark \checkmark$				
	LAN Gbit / 100 Mbit / 10 Mbit / WoL / PXE / M.2 2230 WLAN-BT	$\checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark$				
	iAMT-vPro / Intel Standard Manageability / DASH V1.1	- / - / -				
	SATA / M.2 (SATA) / M.2 PCIe (1 lane) / eSATA-Support / RAID / mSATA	✓ / ✓ / ✓ / ✓ / - / -				
	Mini-PCle / USB 2.0 / USB 3.1 (gen1) / FireWire™	✓ / ✓ / ✓ / -				
	FAN monitored & controlled PSU / CPU / AUX1 / AUX2	- 🗸 🗸 -				
	TEMP monitored CPU / onboard sensors / external sensor	✓ ✓ -				
Special Features	COM interface support for RS-232 / RS-485 / RS-422	\checkmark				
D3543-S	Silent Fan / System Guard / Silent Drives	✓ / ✓ / ✓				
	Recovery BIOS / Desk Update / Multi Boot	$\checkmark \checkmark \checkmark$				
	HDD Password / EraseDisk ³ / TPM V1.2 / TPM V2.0	✓ / ✓ / - / ✓				
	Logo Boot Option / Intel On Screen Branding	✓ / ✓				
	BIOS POST- / BIOS Boot- / OS- HW Watchdog	✓ ✓ ✓				
	Operating Mode 24-7 / 8-5 (hrs per day - days per week)	✓ / -				
	Mainboard operating temperature range (chassis inside) 4	0°C – 60°C				
Internal Connectors	SO DIMM Sockets (DDR4 2400)	2				
D3543-S	SATA-600 / M.2 SSD ⁵ / M.2 WLAN-BT / mSATA / Mini-PCle	2/1/1/-/1				
	Front Panel Audio (9-Pin, HD Audio) / SP-DIF Out (Digital Audio)	1/1				
	USB 2.0 pin header (provides 2 USB channel) / USB Stick socket	2/1				
	USB 3.1 Gen1 pin header (provides 2 USB channels) ⁶	1				
	Serial COM3 header ⁷ / Serial COM4 header ⁷ / Parallel Port header	1/1/1				
	LVDS / LVDS Backlight / Embedded DisplayPort	1/1/1				
	FAN PSU / CPU (PWM) / AUX1 (PWM)	-/1/1				
	Intrusion (Case Open) / GPIO (8Bit) / SMBus (Case Temp.)	1/1/-				
	Mono Speaker header / Internal Stereo Speaker header / DMIC header	1 / - / -				
	Front Panel (Power Switch, Reset Switch, LEDs, Intel 10 pin header)	1				
	SATA Drive Power Connector (5V/12V) / DC-In Connector 8-36V (4 pin)	1/1				
External Connectors	DisplayPort V1.2a / HDMI / DVI / VGA	2/-/-/-				
D3543-S	Audio Mic. In / Line in / Line out (or driver configuration)	-/1/1				
	LAN (RJ-45) / PS/2 Keyboard / Mouse	2/2				
	USB 2.0 / USB 3.1 Gen1	2/2				
	DC-In connector (external input) 8-36V @ 5A max.	1				
	Serial COM interface	2				

 $^{^2}$ Mono speaker support; max. 2.2W @4 Ω / 1.3W @8 Ω

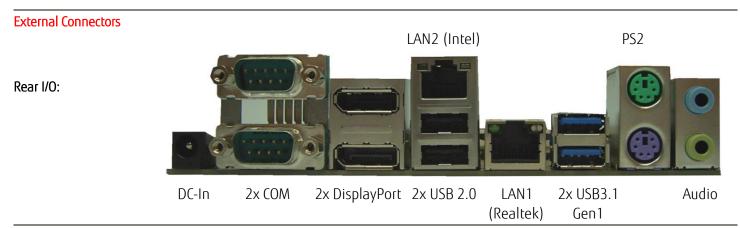
³ BIOS feature; License included

⁴ Forced cooling required for high operating temperature range. See upcoming TechNotes document for details

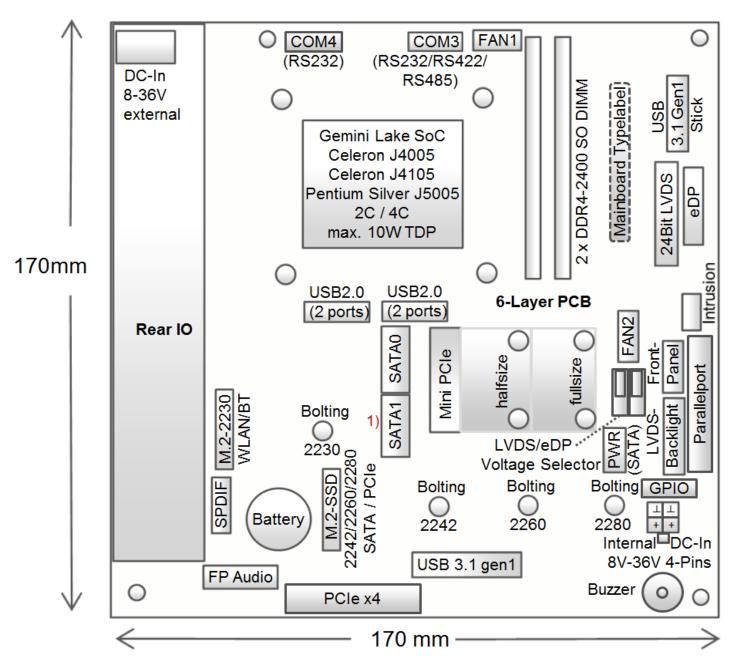
⁵ <u>SATA-based</u> M.2 SSD is shared with SATA port 1; simultaneous use of M.2 2280 module <u>and</u> M.2 2230 module (WLAN/Bluetooth) possible

⁶ USB3 connector includes separate USB2.0 signal pins (2 channels)

 ⁷ COM3 / COM4: RS-232 @ reduced feature set; pin header 2mm pitch; COM3 provides additional support for RS-422 / RS-485; specific device driver for both COM3 / COM4 supported from BIOS R1.6.0
See TechNotes document for details



Connector / Socket Diagram



1) SATA Port1 shared with M.2 SATA-SSD

Data Sheet FUJITSU Mainboard D3543-S Mini-ITX

Accessories

	(Ordercode)
Mini-ITX Chassis Kit for D3543-S	F5000-J5
Internal AC Adapter 12V/65W for chassis kit	F5000-P4
AC Adapter 19V/40W	F5000-P5 (E622)
AC Adapter 19V/65W	F5000-P3 (E623)
Active Heatsink + Backplate	F5000-C9
Fanless Heatsink + Backplate	F5000-C10
USB-C Rear Extension Cable (USB 3.1/gen1)	F5000-K8
Risercard 1x PCIe X4	F5000-R6 (D3318)
Serial Port Cable (400mm, fullsize slot bracket)	F5000-K10

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