

Fujitsu recommends Windows 10 Pro

Datasheet

FUJITSU Desktop ESPRIMO G5010

Mini, Mighty | Takes up your challenges, not your space

The FUJITSU ESPRIMO G5010 is a stylish mini PC which offers desktop functionality in an ultra-compact, space-saving design. Latest Intel chipset and 10th Gen Intel® Core™ processors provides the performance for daily office needs. It supports flexible mounting options – attach to displays, wall mount, under table mount. Its compact size and wide range of interfaces make it an ideal where space saving is critical for the business.

A stylish mini PC with ultra-compact design

Small footprint; energy and space-saving device for clean, clutter-free desk

- Fully equipped PC with a volume of only ~0.86 litres
- Impressive performance/volume ratio and is easy to set up in minutes

Ultimate usability

Flexible mounting options and wide range of usage scenarios

- Can be used for horizontal or vertical operations and easy upgrade of major components
- VESA mount for attaching the PC to displays, stands, or walls

Small yet grand

High performance in a small mini PC design

- Latest Intel chipset technology and 10th generation Intel® Core™ processor family
- Legacy support for standard mini PC interfaces- DisplayPort, HDMI, USB Type-A

Perfect fit for modern offices and workplaces of tomorrow

The PC which can transform your workplace for the next generation

- Supports new workplace scenarios with a single Type-C connection
- Type-C docking port for future workplace and AiO-like usage

Feature-rich and energy-efficient

Do a lot more with this mini-PC and get lesser energy bill

- Improved energy efficiency
- Next generation INTEL integrated graphics
- Type-C connector with convenient front access to support modern peripherals like Type-C USB sticks or headsets



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Components

Operating System pre-installed	Windows 10 Pro. Fujitsu recommends Windows 10 Pro for business.
Operating system notes	Windows 10 support: After the end of the product life FUJITSU will continue to test and support all upcoming Windows 10 releases for a period of maximum 5 years – depending on the available extension of hardware services through FUJITSU Warranty top ups. For details, please see “FUJITSU Service Statement for Windows 10 Semi-Annual-Channel Support” at http://support.ts.fujitsu.com .
Processor	Intel® Core™ i7-10700T processor (8 Cores / 16 Threads, 2.00 GHz, 16 MB, Intel® UHD Graphics 630) ** Intel® Core™ i5-10600T processor (6 Cores / 12 Threads, 2.40 GHz, 12 MB, Intel® UHD Graphics 630) * Intel® Core™ i5-10500T processor (6 Cores / 12 Threads, 2.30 GHz, 12 MB, Intel® UHD Graphics 630) * Intel® Core™ i5-10400T processor (6 Cores / 12 Threads, 2.00 GHz, 12 MB, Intel® UHD Graphics 630) * Intel® Core™ i3-10100 processor (4 Cores / 8 Threads, 3.60 GHz, 6 MB, Intel® UHD Graphics 630) * Intel® Celeron® processor G5905 (2 Cores / 2 Threads, 3.50 GHz, 4 MB, Intel® UHD Graphics 610) *with Intel® Turbo Boost Technology 2.0 (clock speed and performance will vary depending on workload and other variables) **with Intel® Turbo Boost Max Technology 3.0 (clock speed and performance will vary depending on workload and other variables)
Ethernet (RJ-45)	
Memory modules	4GB (1 module(s) 4GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM 8GB (1 module(s) 8GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM 16GB (1 module(s) 16GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM 32GB (1 module(s) 32GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM
Mass storage 2.5 inch size	SSD SATA III, 512 GB, 2.5-inch SSD SATA III, 256GB, 2.5-inch SSD SATA III, 128 GB, 2.5-inch HDD SATA III, 500 GB, 5.4k rpm HDD SATA III, 1000 GB, 5.4k rpm HDD SATA III, 2000 GB, 5.4 rpm
Mass storage M.2 technology	SSD PCIe, 1024 GB M.2 NVMe module, SED SSD PCIe, 1024 GB M.2 NVMe module SSD PCIe, 512 GB M.2 NVMe module, SED SSD PCIe, 512 GB M.2 NVMe module SSD PCIe, 256 GB M.2 NVMe module, SED SSD PCIe, 256 GB M.2 NVMe module SSD PCIe, 128 GB M.2 NVMe module
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. SSD (Solid State Disk) SED (Self-Encrypting Drive) 2.5-inch bay for devices with 7mm height
Interface add on cards/components (optional)	WLAN 802.11ax (2x2) PCIe x1 LP and Bluetooth 5.0, SRD 5.8GHz (dedicated regions only)

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Base unit

Base unit	ESPRIMO G5010
Mainboard	
Mainboard type	D3804
Formfactor	Proprietary
Chipset	Intel® H410
Processor socket	LGA 1200
Processor quantity maximum	1
Supported capacity RAM (max.)	64 GB
Memory slots	2 DIMM (DDR4)
Memory frequency	2,933 MT/s
Memory notes	Dual channel support For dual channel performance, 2 memory modules must be ordered. Capacity per channel must be the same. 2933 MHz may be clocked down to 2400MHz depending on processor and memory configuration
LAN	10/100/1,000 Mbit/s Realtek RTL8111H
Integrated WLAN	1 (optional with Bluetooth together)
BIOS version	AMI Aptio V UEFI Specification 2.6
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio type	On board
Audio codec	Realtek ALC623
Audio features	Internal speaker supports audio playback (optional), High Definition audio
I/O controller on board	
Serial ATA total	1
Thereof SATA III	1
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI
Interfaces	
Front audio: headset	1
USB 2.0 total	3
USB 3.2 Gen1 (5 Gbps) total	4
USB front	1x Type-A USB 3.2 Gen1; 1x Type-C USB 2.0 (supports up to 15W)
USB rear	2x Type-A USB 2.0; 2x Type-A USB 3.2 Gen1; 1x Type-C USB 3.2 Gen12, supports DisplayPort 1.4 and power delivery e.g., from a display)
VGA	Optional; via external active adapter cable
DisplayPort	1
HDMI	1
Ethernet (RJ-45)	1
Interface Module notes	Anytime USB charge functionality, Optional Type-C port supports DisplayPort 1.4 and Power Delivery (PD) e.g., from Display, HDMI Ver. 1.4
Input device / components	
Input devices (optional)	Keyboard Mouse
Drive bays	
Drive bays total	1
2.5-inch internal bays	1
M.2-2280	1x on mainboard for SSD NVMe (PCIe 3.0 x4; up to 32Gbit/s)
Slots	
PCI-Express 3.0 x4 (mech. x16)	1 x (150mm / 5.91 inch)
PCI-Express 3.0 x16	1 x (210 mm / 8.27 inch) Low profile or full height (via Riser card), optional
M.2-2230	On mainboard for WLAN/Bluetooth module
Graphics on board	
Graphics brand name	Intel® UHD Graphics 610, Intel® UHD Graphics 630
Shared video memory	Up to half size of total system memory
TFT resolution (DisplayPort)	Up to 4,096 x 2,304 pixel
TFT resolution (HDMI)	Up to 4,096 x 2,160 pixel (30 Hz)
Graphics features	Dual display support DirectX® 12 HDCP support OpenCL™ 2.1 OpenGL® 4.5 DisplayPort interface supports Ver. 1.4 incl. Multi-Stream Digital audio formats are supported, including Dolby digital Plus (7.1 channels)

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	USB Type-C™ (supports DisplayPort™ 1.4 and power delivery (PD) up to 15W)
Graphics on board	
Graphics notes	Up to 1GB dedicated video memory (main memory owned and locked for graphics use) Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (colour depth up to 32 Bit/pixel) For TFT we recommend using 60Hz
Electrical values	
Power efficiency note	Power supply efficiency at 115/230V: 89% average efficiency 80Plus GOLD:
Rated voltage range	100V – 240V
Rated frequency range	50 Hz – 60 Hz
Operating voltage range	90 V – 264 V
Operating line frequency range	47 Hz – 63 Hz
Max. output of single power supply	65W
Power consumption	
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	https://docs.ts.fujitsu.com/dl.aspx?id=5a01a770-86f9-4fb4-b05c-0c9ae0597391
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Related Processors for noise	Intel® Core™ i5-10500T processor and 8GB, no ODD, Windows 10 (tower position)
Standard noise emission	According to ISO 7779:2010, ECMA-74
Standard noise notes/ description	A-weighted sound power level L _{wad} (in B) / Workplace related A-weighted sound pressure level L _{pAm} (in db(A))
Standard noise operation mode: CPU 50% load	3.1 B / 17 dB(A) Bystander; 18 dB(A) Operator position (SSD M.2)
Standard noise operation mode: HDD mode	3.4 B / 22 dB(A) Bystander; 24 dB(A) Operator position (SSD M.2)
Standard noise operation mode: Idle mode	3.0 B / 17 dB(A) Bystander; 17 dB(A) Operator position (SSD M.2)
Standard noise operation mode: Office Applications 2.0	3.0 B / 17 dB(A) Bystander; 17 dB(A) Operator position (SSD M.2)
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	146.9 x 164.5 x 36 mm 5.78 x 6.48 x 1.42 inch
Operating position	Horizontal / vertical (optional, feet needed)
VESA mount	Optional mounting kit
Weight	0.8 kg
Weight (lbs)	1.76 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 – 35 °C (50 – 95 °F)
Operating relative humidity	5 – 85 % (relative humidity)
Compliance	
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 8.0 TCO Certified 8.0 (depending on configuration) EPEAT® Silver (dedicated regions), depending on configuration
Compliance link	https://sp.ts.fujitsu.com/sites/certificates
Additional Software	
Additional software (preinstalled)	Adobe® Reader® (pdf reader) McAfee® LiveSafe™ (provides award-winning antivirus protection for your PC and much more. 30 days trial preinstalled) Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy Microsoft Office.)
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™) CyberLink PowerDVD DVD (playback software for DVD) Nero Essentials XL Microsoft® Office Professional 2019 Microsoft® Office Home and Business 2019 (A Microsoft Account is required to activate each copy of these products. For purchase and activation only in the region in which it was acquired.)
Manageability	
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN)

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Manageability	
DeskView components	BIOS Management incl. Security Inventory Management Driver Management Alarm Management
Supported standards	DMI (Desktop Management Interface) SMBIOS (System Management BIOS) PXE (Preboot Execution Environment) WMI (Windows Management Instrumentation) WBEM (Web Based Enterprise Management) CIM (Common Information Model)
Manageability link	https://www.fujitsu.com/fts/manageability
Security	
Physical Security	Kensington Lock support
System and BIOS Security	Embedded security (TPM 2.0) EraseDisk Credential Guard Ready and Device Guard Capable (requires 8 GB or more system RAM and SSD PCIe NVME) Modern Standby ready (for configurations with NVMe SSD and w/o PCIe cards) Write protect option for the Flash EPROM Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional) AuthConductor Client Basic (secure authentication solution)
Miscellaneous	
	Keyboard on with 2 keys (CTRL+CTRL) with PS2 or special USB keyboards Keyboard on with any key (USB) Thermal management Extended lifetime
Packaging information	
Packaging dimension (mm)	395 x 198 x 284 mm
Packaging dimension (inch)	15.55 x 7.8 x 11.18 inch
Max. quantity/ pallet	84
Material – Weight (g) Carton	670 g
Material – Weight (lbs) Carton	1.48 lbs
Material – Weight (g) EPS / PS	10 g
Material – Weight (lbs) EPS / PS	0.02 lbs
Material – Weight (lbs) PE	125 g
Material – Weight (lbs) PE	0.28 lbs
Packaging notes	If keyboard is included in packaging: 1.) packaging dimension is increased to: 500 x 208 x 290mm / (19.69 x 8.19 x 11.42 inch); 2.) material weight of cartoon will increase to 880g; 3.) max. quantity/pallet = 56; printed user documentation is bleached in chlorin free process;
Warranty	
Warranty period	1 year
Warranty type	Bring-In / Onsite Service (depending on country)
Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years

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More information

Fujitsu OPTIMIZATION solutions

In addition to Fujitsu Desktop ESPRIMO D9010, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

<https://www.fujitsu.com/hk/products/computing/pc/Software>
www.fujitsu.com/software/

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More information

To learn more about Fujitsu Desktop ESPRIMO D9010, please contact your Fujitsu sales representative, Fujitsu Business partner, or visit our website.

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 contribute to the creation of a sustainable environment for future generations through IT.

Please find further information at
<http://www.fujitsu.com/global/about/environment/>



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Specification disclaimers

¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. ² GB = 1 billion bytes. TB = 1 trillion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software. Up to 20 GB of HDD space is reserved for system recovery. ³ Shared memory depending on main memory size and operating system. ⁴ WWAN module is optional and available in specific countries only. It requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. Please contact our Fujitsu sales specialist for more information. ⁵ Interfaces depend on the configuration selected by customers. ⁶ Battery runtime information is based on worldwide acknowledged BAPCo® MobileMark® 2018 (office productivity). Refer to www.bapco.com for additional details. The BAPCo® MobileMark® Benchmark provides results that enable direct product comparisons between manufacturers. It does not guarantee any specific battery runtime which actually can be lower and may vary depending on product model, configuration, application and power management settings. The battery capacity decreases slightly with every re-charge and over its lifetime. 2-cell battery will only be available in specific countries/ regions. For more detail, please contact Fujitsu sales specialist. ⁷ The stated thickness does not include rubber feet.

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