

Fujitsu recommends Windows 10 Pro for business.

Datasheet

FUJITSU Desktop ESPRIMO G9010

A smart and ultra-compact mini-PC for advanced office needs

The FUJITSU ESPRIMO G9010 is a smart mini-PC which offers advanced desktop PC functionality in an ultra-compact, space-saving design. With the Intel® Q470 chipset, 10th Gen Intel® Core™ processors and the stable Intel® vPro® technology platform, this mini-PC provides the performance to meet advanced office needs. It is a low noise mini-PC with a space saving design, thus providing ergonomic, clean and clutter-free working environment.

A smart mini-PC with ultra-compact design

Eye-catching exclusive modern design

- Offers advanced desktop PC functionality with a volume of only ~0.86 liters
- Impressive performance/volume ratio and is easy to set up in minutes

Small in size but grand in performance

High performance in a small mini-PC design

- Latest Intel® chipset technology and 10th Gen Intel® Core™ processor family
- Intel® vPro® version for latest out-of-band management features
- Intel® integrated graphics

Low noise mini-PC

Pleasant working environment due to completely quiet system

- Advanced cooling technology for creating an ergonomic workplace

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
- Perfect device to use for home office scenarios

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 USB Type-C™ connection
- USB Type-C™ Docking port for future workplace and AiO-like usage



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Specification

Processor	Intel® Core™ i7-10700T processor (8 Cores / 16 Threads, 2.00 GHz, 16 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™ i3-10105T processor (4 Cores / 8 Threads, 3.00 GHz, 6 MB, Intel® UHD Graphics 630) * Intel® Core™ i3-10100 processor (4 Cores / 8 Threads, 3.60 GHz, 6 MB, Intel® UHD Graphics 630) * Intel® vPro® Platform Logo with Intel® Core™ i5-10500T and Intel® Core™ i7-10700T *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)
Operating systems	
Operating system pre-installed	Windows 10 Pro. Fujitsu recommends Windows 10 Pro for business.
Ethernet (RJ-45)	1
Memory modules	32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, SO DIMM 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, SO DIMM 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, SO DIMM 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, SO DIMM
Mass storage 2.5 inch size	SSD SATA III, 512 GB, 2.5 inch SSD SATA III, 256 GB, 2.5 inch
Mass storage M.2 technology	SSD PCIe, 1,024 GB M.2 NVMe module, SED SSD PCIe, 1,024 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
Mass storage 2.5 inch size	HDD SATA III, 5,400 rpm, 2,000 GB, 2.5 inch HDD SATA III, 5,400 rpm, 1,000 GB, 2.5 inch HDD SATA III, 5,400 rpm, 500 GB, 2.5 inch
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 7 mm height
Interface add on cards / Components (optional)	Intel® WI-FI 6 AX200 and Bluetooth 5.1 vPro, SRD 5.8 GHz (dedicated regions only)

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Base unit

ESPRIMO G9010	
Mainboard	
Mainboard type	D3814
Formfactor	Proprietary
Chipset	Intel® Q470
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 have to be ordered. Capacity per channel has to be the same. 2,933 MHz clocked down to 2,400 MHz depending on processor, memory configuration, and memory type
LAN	10/100/1,000 MBit/s Intel® I219LM
Integrated WLAN	Intel® Wi-Fi 6 AX200 (2x2/160) Gig+ and Bluetooth 5.1 (optional)
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 RAID 0/1/5/10
Interfaces	
Front audio: headset	1
USB 3.2 Gen 1x1 (5 Gbps) total	2
USB 3.2 Gen 2x1 (10 Gbps) total	5
USB front	1x Type-A USB 3.2 Gen 2x1 1x Type-C USB 3.2 Gen 2x1; (supports up to 15 W)
USB rear	2x USB 3.2 Gen 1x1 2x USB 3.2 Gen 2x1 1x USB 3.2 Gen 2x1 Type-C (supports DisplayPort 1.4 and incl. 60 W power delivery sink support e.g. from a display)
VGA	Via external active adapter cable (optional)
DisplayPort	2
Ethernet (RJ-45)	1
Interface module notes	Anytime USB charge functionality; USB Type-C™ port supports DisplayPort 1.4 and Power Delivery (PD) e.g. from Display (optional)
Kensington Lock support	1
Input device / Components	
Input devices (optional)	Keyboard Mouse
Drive bays	
Drive bays total	1
2.5 inch internal bays	1
Drive bay notes	2.5 inch bay is included for 2.5 inch drive
M.2-2280	1 x on mainboard and 1 x as option in drive bay; for SSD NVMe (PCIe 3.0 x4; up to 32 Gbit/s)
Mini PCI slots	
M.2-2230	On mainboard for WLAN module

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Graphics on board	
Graphics brand name	Intel® UHD Graphics 630
Shared video memory	Shared memory depending on main memory and operating system
TFT resolution (DisplayPort)	Up to 4,096 x 2,304 pixel
Graphics features	Support for up to three independent displays 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) USB Type-C™ (supports DisplayPort™ 1.4 and power delivery (PD) up to 15 W)
Graphics notes	Up to 1 GB dedicated video memory (main memory owned and locked in 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 60 Hz
Electrical values	
Power efficiency note	Power supply efficiency at 115 / 230 V: 89% average efficiency
Rated voltage range	100 V - 240 V
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 PSU	65 W
Power consumption	
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	https://docs.ts.fujitsu.com/dl.aspx?id=67825724-2d23-4a4d-8767-38ed99ee1506
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Related processors for noise	Intel® Core™ i5-10500T processor and 8 GB, 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 Lwad (in B)/ Workplace related A-weighted sound pressure level LpAm (in dB(A))
Standard noise operation mode: CPU 50% load	3.0 B / 17 dB(A) Bystander; 16 dB(A) Operator position (SSD M.2)
Standard noise operation mode: HDD mode	3.1 B / 17 dB(A) Bystander; 17 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	Vertical / horizontal (feet included)
VESA mount	Mounting kit (optional)
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	
Product	ESPRIMO G9010
Model	TCS5
Global	RoHS (Restriction of hazardous substances) Microsoft Operating Systems (HCT / HCL entry / WHQL) Microsoft Secured-core PC certification (for selected configurations) ENERGY STAR® 8.0
China	CCC (depending on configuration) CEL (Chinese energy label) TPM 2.0 for China (optional)

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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 pre-installed) Microsoft® Office 30 days trial
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) 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) Intrusion switch (with 2.5 inch HDD) WoL (Wake on LAN) iAMT 14.0 (depending on processor)
Manageability software	DeskView Client DeskView Instant BIOS Management
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)
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) AuthConductor™ Client Basic (secure authentication solution)
Miscellaneous	
	Keyboard on with any key (USB) Thermal management
Packaging information	
Packaging dimension (mm)	489 x 218 x 165 mm
Packaging dimension (inch)	19.25 x 8.58 x 6.49 inch
Max. quantity / pallet	84
Material – weight (g) carton	642 g (without keyboard); 845 g (with keyboard)
Material – weight (lbs) carton	1.42 lbs (without keyboard); 1.86 lbs (with keyboard)
Packaging notes	max. quantity / pallet = 56
Warranty	
Warranty period	Recommended 3 year
Warranty terms & conditions	www.fujitsu.com/hk/microsite/warranty/

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More information

Fujitsu OPTIMIZATION solutions

In addition to Fujitsu Desktop ESPRIMO G9010, 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

hk.fujitsu.com/pc

Software

www.fujitsu.com/software/

More information

To learn more about Fujitsu Desktop ESPRIMO G9010, 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.

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