FUJITSU

Fujitsu recommends Windows 10 Pro for business.

Data Sheet
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 latest Intel 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 generation Intel® Core™ processor family
■ vPro version for latest out-of-band management features
■ Next generation 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 Type-C connection
■ Type-C Docking port for future workplace and AiO-like usage

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Components

Operating systems	
Operating system pre-installed	Windows 10 Pro. Fujitsu recommends Windows 10 Pro for business. Windows 10 Home
Operating system notes	Windows 10 Support: After the end of the product life FUJITSU will continue to test and support all upcoming Window 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® vPro® Platform Logo with Intel® Core™ i5-10500T, Intel Core i5-10600T and Intel® Core™ i7 *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)1	
Memory modules	4 GB (1 module(s) 4 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
	16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, SO DIMM
	32 GB (1 module(s) 32 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, 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
Mass storage 2.5 inch size	HDD SATA III, 5,400 rpm, 2000 GB, 2.5-inch
	HDD SATA III, 5,400 rpm, 1000 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 7mm height
Interface add on cards/components (optional)	
	Intel® WI-FI 6 AX200 and Bluetooth 5.1 vPro, SRD 5.8GHz (dedicated regions only)

Base unit

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. 2933 MHz may be clocked down to 2400MHz depending on processor and memory configuration
LAN	10/100/1,000 MBit/s Intel® I219LM
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 RAID 0/1/5/10

Interfaces

Front audio: headset	1
USB 3.2 Gen1 (5 Gbps) total	2
USB 3.2 Gen2 (10 Gbps) total	5
USB front	1x Type-A USB 3.2 Gen 2; 1x Type-C USB 3.2 Gen 2; supports up to 15W
USB rear	3x USB 2.0 1x USB 3.2 Gen 1 1x USB 3.2 Gen 1 Type-C (supports DisplayPort 1.4 and incl. 60W power delivery sink support e.g. from a display)
VGA	optional: via external active adapter cable
DisplayPort	2
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
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	optional 2.5" bay can be used for 2.5" or additional M.2 module
M.2-2280	1 x on mainboard and 1 x as option in drive bay; for SSD NVMe (PCIe 3.0 x4; up to 32Gbit/s)

Mini PCI slots

M.2-2230	on mainboard for WLAN 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
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 15W)
Graphics notes	up to 1 GB 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 (color 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
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 power supply	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 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 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 load	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	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

Product	ESPRIMO G9010

Compliance

Model	TCS5
Germany	GS
Europe	CE
USA/Canada	FCC Class B cTUVus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) Microsoft Secured-core PC certification (for selected configurations) ENERGY STAR® 8.0 TCO Certified 8.0 (depending on configuration) EPEAT® Silver (dedicated regions), depending on configuration
China	CCC (planned) CCC (depending on configuration) CEL (Chinese energy label) TPM 2.0 for China (optional)
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 (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.)

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)

Manageability

Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) 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

Manageability

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	http://www.fujitsu.com/fts/manageability

Miscellaneous

	Keyboard on (Special Fujitsu keyboard required) Keyboard on with one key (KBPX Eco, KB521) Keyboard on with 2 keys (CTRL+CTRL) with PS2 or special USB keyboards Keyboard on with any key (USB) Thermal management Extended lifetime
Accessories information	Further helpful options Desktop Accessories: http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/ http://www.fujitsu.com/global/products/computing/peripheral/accessories/connectivity/ Stands and Mounting kits: http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/ums/index.html Available Adapters: http://globalsp.ts.fujitsu.com/dmsp/Publications/public/pos-connectivity.pdf

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 (g) PE	125 g
Material - Weight (lbs) PE	0.28 lbs
Packaging notes	If keyboard is inlcuded in packaging: 1.)packaging dimension is increasing to: 500 x 208 x 290mm / (19.69 x 8.19 x 11.42 inch); 2.) material weight of carton will increase to 880g; 3.) max. quantity/pallet = 56; printed user documentation is bleached in chlorin free process;

Warranty

Warranty period	3 years
Warranty type	Bring-In / Onsite Service (depending on country)
Warranty Terms & Conditions	http://www.fujitsu.com/warranty

Product Support Services - the perfect extension

Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/

Recommended Accessories

DisplayPort to DisplayPort 1.4 Cable	The Fujitsu DisplayPort to DisplayPort Cable connects your system with your display offering you an ultra high resolution graphics connection up to (8K UHD (7.680 × 4.320 Pixel) @ 60 Hz).	Order Code: S26391-F6055-L219
HDMI to HDMI Cable	The Fujitsu HDMI to HDMI Cable connects your display with your system or Port Replicator.	Order Code: S26391-F6055-L230
USB Type-C to USB Type-A Adapter	The FUJITSU USB Type-C to USB Type-A Adapter allows you to connect Accessories with an USB Type-A interface with your system.	Order Code: S26391-F6058-L100
USB-C Cable 5A Gen2	The FUJITSU USB-C Cable 5A Gen2 allows you to connect Accessories with an USB Type-C interface with your system.	Order Code: S26391-F6058-L101
USB-C to HDMI2.0 Adapter	The FUJITSU USB-C to HDMI2.0 Adapter enables the connection of HDMI displays to systems providing an alternate mode based USB-C interface.	Order Code: S26391-F6058-L130
USB Type-C to DisplayPort Adapter	The FUJITSU USB Type-C to DP Adapter offers a fast and easy way to connect a DisplayPort-display to your mobile system, or desktop PC, using the USB Type-C port via plug-and-play functionality	Order Code: S26391-F6058-L201
USB Type-C to VGA Adapter	The FUJITSU USB Type-C to VGA Adapter offers a fast and easy way to connect an analog VGA-display or projector to your mobile system, or desktop PC, using the USB Type-C port via plug-and-play functionality	Order Code: S26391-F6058-L203
USB Type-C to Gb-LAN Adapter	The FUJITSU USB Type-C to Gb-LAN Adapter offers a fast and easy way to connect a Gbit-LAN to your mobile system, or desktop PC, using the USB Type-C port via plug-and-play functionality	Order Code: S26391-F6058-L301
Wireless Keyboard Set LX960	The Wireless Keyboard Set LX960 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set offers ambitious users more functions and better features than a conventional interface device. It even includes 2.4 GHz technology and 128-bit AES encryption.	S26381-K960-L4** (**: Country specific variation)

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More information

Fujitsu products, solutions & services

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
www.fujitsu.com/global/products/computing/

Software
www.fujitsu.com/software/

More information

Learn more about FUJITSU Desktop ESPRIMO G9010, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/emeia/ESPRIMO

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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