

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 fan less cooling as option, 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

- Fan less cooling as option for 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



# Components

<b>Operating systems</b>	
<b>Operating system pre-installed</b>	Windows 10 Pro. Fujitsu recommends Windows 10 Pro for business. Windows 10 Home
<b>Operating system notes</b>	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 <a href="http://support.ts.fujitsu.com">http://support.ts.fujitsu.com</a> .
<b>Processor</b>	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)
<b>Memory modules</b>	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
<b>Mass storage 2.5 inch size</b>	SSD SATA III, 512 GB, 2.5-inch SSD SATA III, 256 GB, 2.5-inch
<b>Mass Storage M.2 technology</b>	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
<b>Mass storage 2.5 inch size</b>	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
<b>Hard disk notes</b>	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
<b>Interface add on cards/components (optional)</b>	Intel® WI-FI 6 AX200 and Bluetooth 5.1 vPro, SRD 5.8GHz (dedicated regions only)

## Base unit

<b>Base unit</b>	ESPRIMO G9010
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**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 Gen 1 (5 Gbps) total	2
USB 3.2 Gen 2 (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	2x Type-A USB 3.2 Gen 1; 2x Type-A USB 3.2 Gen 2; 1x Type-C USB 3.2 Gen 2, supports DisplayPort 1.4 and power delivery 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
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**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**

<b>Graphics brand name</b>	Intel® UHD Graphics 610, Intel® UHD Graphics 630
<b>Shared video memory</b>	Up to half size of total system memory
<b>TFT resolution (DisplayPort)</b>	Up to 4,096 x 2,304 pixel
<b>Graphics features</b>	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)
<b>Graphics notes</b>	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**

<b>Power efficiency note</b>	power supply efficiency at 115/230V: 89% average efficiency
<b>Rated voltage range</b>	100 V - 240 V
<b>Rated frequency range</b>	50 Hz - 60 Hz
<b>Operating voltage range</b>	90 V - 264 V
<b>Operating line frequency range</b>	47 Hz - 63 Hz
<b>Max. output of single power supply</b>	65 W

**Power consumption**

<b>Power consumption note</b>	See white paper Energy Consumption
<b>Link to Energy White Paper</b>	<a href="https://docs.ts.fujitsu.com/dl.aspx?id=67825724-2d23-4a4d-8767-38ed99ee1506">https://docs.ts.fujitsu.com/dl.aspx?id=67825724-2d23-4a4d-8767-38ed99ee1506</a>

**Heat dissipation**

<b>Heat dissipation notes</b>	See white paper Energy Consumption
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**Noise emission**

<b>Related Processors for noise</b>	Intel® Core™ i5-10700T processor and 8GB, no ODD, Windows 10 (tower position)
<b>Standard noise emission</b>	According to ISO 7779:2010, ECMA-74
<b>Standard noise notes / description</b>	A-weighted sound power level L <sub>wad</sub> (in B) / Workplace related A-weighted sound pressure level L <sub>pAm</sub> (in dB(A))
<b>Standard noise operation mode: CPU 50% load</b>	3.0 B / 17 dB(A) Bystander; 16 dB(A) Operator position (SSD M.2)
<b>Standard noise operation mode: HDD load</b>	3.1 B / 17 dB(A) Bystander; 17 dB(A) Operator position (SSD M.2)
<b>Standard noise operation mode: Idle mode</b>	3.0 B / 17 dB(A) Bystander; 17 dB(A) Operator position (SSD M.2)
<b>Standard noise operation mode: Office applications 2.0</b>	3.0 B / 17 dB(A) Bystander; 17 dB(A) Operator position (SSD M.2)

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	146.9 x 164.5 x 36 mm 5.78 x 6.48 x 1.42 inch
<b>Operating position</b>	horizontal / vertical (optional, feet needed)
<b>VESA mount</b>	optional mounting kit
<b>Weight</b>	0.8 kg
<b>Weight (lbs)</b>	1.76 lbs
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	10 - 35 °C (50 - 95 °F)
<b>Operating relative humidity</b>	5 - 85 % (relative humidity)

**Compliance**

<b>Product</b>	ESPRIMO G9010
<b>Model</b>	TCS5
<b>Germany</b>	GS
<b>Europe</b>	CE
<b>USA/Canada</b>	FCC Class B cTUVus
<b>Global</b>	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® in progress (dedicated regions)
<b>China</b>	CCC (planned) CCC (depending on configuration) CEL (Chinese energy label) TPM 2.0 for China (optional)
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**Additional Software**

<b>Additional software (preinstalled)</b>	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.)
<b>Additional software (optional)</b>	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**

<b>Manageability technology</b>	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)
<b>Manageability software</b>	DeskView Client DeskView Instant BIOS Management
<b>DeskView components</b>	BIOS Management incl. Security Inventory Management Driver Management Alarm Management
<b>Supported standards</b>	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)
<b>Manageability link</b>	<a href="http://www.fujitsu.com/fts/manageability">http://www.fujitsu.com/fts/manageability</a>

**Security**

<b>Physical Security</b>	Kensington Lock support
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<b>Security</b>	
<b>System and BIOS Security</b>	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
<b>User Security</b>	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)
<b>Miscellaneous</b>	
	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
<b>Accessories information</b>	Further helpful options  Desktop Accessories: <a href="http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/">http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/</a> <a href="http://www.fujitsu.com/global/products/computing/peripheral/accessories/connectivity/">http://www.fujitsu.com/global/products/computing/peripheral/accessories/connectivity/</a>  Stands and Mounting kits: <a href="http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/ums/index.html">http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/ums/index.html</a> Available Adapters: <a href="http://globalsp.ts.fujitsu.com/dmsp/Publications/public/pos-connectivity.pdf">http://globalsp.ts.fujitsu.com/dmsp/Publications/public/pos-connectivity.pdf</a>
<b>Packaging information</b>	
<b>Packaging dimension (mm)</b>	395 x 198 x 284 mm
<b>Packaging dimension (inch)</b>	15.55 x 7.8 x 11.18 inch
<b>Max. quantity / pallet</b>	84
<b>Material - Weight (g) Carton</b>	670 g
<b>Material - Weight (lbs) Carton</b>	1.48 lbs
<b>Material - Weight (g) EPS / PS</b>	10 g
<b>Material - Weight (lbs) EPS / PS</b>	0.02 lbs
<b>Material - Weight (g) PE</b>	125 g
<b>Material - Weight (lbs) PE</b>	0.28 lbs
<b>Packaging notes</b>	If keyboard is included 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;
<b>Warranty</b>	
<b>Warranty period</b>	3 years
<b>Warranty type</b>	Bring-In / Onsite Service (depending on country)
<b>Warranty Terms &amp; Conditions</b>	<a href="http://www.fujitsu.com/warranty">http://www.fujitsu.com/warranty</a>
<b>Product Support Services - the perfect extension</b>	
<b>Recommended Service</b>	9x5, Onsite Response Time: Next Business Day
<b>Spare Parts availability</b>	5 years
<b>Service Weblink</b>	<a href="http://www.fujitsu.com/emeia/products/product-support-services/">http://www.fujitsu.com/emeia/products/product-support-services/</a>

## 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)

## 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/](http://www.fujitsu.com/global/products/computing/)

#### Software

[www.fujitsu.com/software/](http://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](http://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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