

Fujitsu recommends Windows 10 Pro for business.

# Data Sheet

## FUJITSU Desktop ESPRIMO D9010

New space saving Small form factor PC with high efficiency and premier manageability

The FUJITSU ESPRIMO D9010 Desktop is a high performance, secure PC with superior manageability, expandability, and best-in-class connectivity. The 80Plus GOLD and 80Plus PLATINUM power supply helps to reduce environmental impact. The USB Type C and flexible graphics options offer great connectivity. Faster operations, a smaller foot print in vertical position enhances space saving to create the perfect working desk.

### Latest Intel® Chipset technology with higher memory speed

High performance ensures faster operations and lower system response time

- Superior Intel® Q470 chipset with higher memory frequency of 2,933 MT/s
- The stable Intel® vPro™ technology platform (depending on processor)

### New housing and ultimate expandability

Easily customizable and highly expandable business desktop PC

- 2x low profile (LP) or 1x LP/ 1x Full height (Riser) via BTO
- Space saving in width and depth with new 8.3 litres volume

### Low Power Consumption; Easy serviceability and usability

Less power consumption and costs but with same performance

- 80Plus GOLD and 80Plus PLATINUM power supply efficiency with monitor outlet
- Tool-less access to components, easy change and screw-less add-on cards

### High security with integrated options

Designed to protect data and hardware components against manipulation and theft

- Cable cover in addition to existing Smartcard reader, Erasedisk software
- Integrated Cabinet lock with Master key option
- Hole for pad lock and Kensington as standard for security

### Best-in-Class connectivity

Be flexible and stay productive in a hyper-connected world

- Support of new USB Type C in front
- Flexible graphics options (VGA, DVI-D, HDMI, Type C)
- USB Type C support of 60W (optional to power a display)
- Legacy PS2, serial port, parallel port connectors as option



# 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™ i9-10900 processor (10 Cores / 20 Threads, 2.80 GHz, 20 MB, Intel® UHD Graphics 630) **
	Intel® Core™ i7-10700 processor (8 Cores / 16 Threads, 2.90 GHz, 16 MB, Intel® UHD Graphics 630) **
	Intel® Core™ i5-10600 processor (6 Cores / 12 Threads, 3.30 GHz, 12 MB, Intel® UHD Graphics 630) *
	Intel® Core™ i5-10500 processor (6 Cores / 12 Threads, 3.10 GHz, 12 MB, Intel® UHD Graphics 630) *
	Intel® Core™ i5-10400 processor (6 Cores / 12 Threads, 2.90 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™ i5-10500, Intel Core i5-10600, Intel® Core™ i7 and Intel® Core™ i9 processors *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, UDIMM
	8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM
	16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM
	32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM
<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
	RAID1 Bundle 2x512GB M.2 NVMe Highend
	RAID1 Bundle 2x256GB M.2 NVMe Highend
<b>Mass storage 3.5 inch size</b>	HDD SATA III, 7,200 rpm, 2000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 1000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1000 GB, 3.5-inch
<b>Mass storage 2.5 inch size</b>	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)
<b>Graphics</b>	NVIDIA® Quadro® P400 LP, 2 GB
	NVIDIA® GeForce® GTX 1650
	MiniDP to DP Adapter Cable
<b>Drives (optional)</b>	BD Triple Writer SATA ultra slim (tray)
	DVD Super Multi ultra slim (tray)
	SD Card reader

**Interface add on cards/components (optional)**

Gigabit Ethernet PCIe x1  
 Intel® Wi-Fi 6 AX200 and Bluetooth 5.1 vPro, SRD 5.8GHz (dedicated regions only)  
 Dual serial card PCIe x1 LP

## Base unit

Base unit	ESPRIMO D9010
<b>Mainboard</b>	
Mainboard type	D3822
Formfactor	proprietary
Chipset	Intel® Q470
Processor socket	LGA 1200
Processor quantity maximum	1
Supported capacity RAM (max.)	128 GB
Memory slots	4 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	optional; Intel® Wi-Fi 6 AX200 (2x2/160) Giga+ and Bluetooth 5.1
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, 5.1 surround sound
<b>I/O controller on board</b>	
Serial ATA total	4
thereof SATA III	4
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI RAID 0/1/5/10
<b>Interfaces</b>	
Audio: line-in	1
Audio: line-out	1
Front audio: headset	1
USB 2.0 total	4
USB 3.2 Gen 1 (5 Gbps) total	3
USB 3.2 Gen 2 (10 Gbps) total	5 and 1 optional
USB front	2x USB 2.0; 2x USB 3.2 Gen 2; 1x USB 3.2 Gen 2 Type-C (supports up to 15W)
USB rear	2x USB 2.0; 2x USB 3.2 Gen 1; 2x USB 3.2 Gen 2; optional: additional 1x USB 3.2 Gen 2 Type-C (supports DisplayPort 1.4 and power delivery (PD) up to 15W or 60W (occupies PCIe x16 slot)
USB internal	1x USB 2.0 or 1x USB 3.2 (Gen 1) Type A
VGA	optional

**Interfaces**

DisplayPort	2
DVI	optional (DVI-D)
Serial (RS-232)	1 (optional serial port (9pin, 16 byte FIFO, 16550 compatible))
Mouse / Keyboard (PS/2)	2 (optional)
Ethernet (RJ-45)	1
Parallel	1 (optional) (25pin with EPP and ECP)
Interface Module notes	Anytime USB charge functionality
Kensington Lock support	1

**Input device / components**

Input devices (optional)	Keyboard Mouse
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**Drive bays**

Drive bays total	3
2.5-inch internal bays	1
5.25-inch external bays	1
Drive bay notes	1x internal 3.5" bay optional (screwless), can be used via adapter for 1x or 2x 2.5" drives (screwless); 5.25" bay: for slim optical disc drive only;
M.2-2280	2 x on mainboard for SSD NVMe (PCIe 3.0 x4; up to 32Gbit/s)

**Slots**

PCI-Express 3.0 x4 (mech. x16)	1 x (150 mm / 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 (VGA)	Up to 1,920 x 1,080 pixel
TFT resolution (DVI)	up to 1,920 x 1,200 pixel
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	Support for up to three independent displays DirectX® 12 HDCP support OpenCL™ 2.1 OpenGL® 4.5 For multi monitoring mode, graphics card and integrated graphics run in parallel DisplayPort interface supports Ver. 1.4 incl. Multi-Stream Digital audio formats are supported, including Dolby Digital Plus (7.1 channels) DVI-D interface supports audio output if connected to the HDMI interface of a display via suitable adapter cables (not included) Additional I/O connectors configurable, choice of DVI-D HDMI™ VGA USB Type-C™ (supports DisplayPort™ 1.4 and power delivery (PD) up to 15W) USB Type-C™ (supports DisplayPort™ 1.4 and power delivery (PD) up to 60W. Occupies PCIe x16 slot)
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**

<b>Power efficiency note</b>	Power supply efficiency in % at 10% / 20% / 50% / 100% load 80Plus GOLD: for 230V ; 87/90/92/91 for 115V ; 86/89/91/88  80Plus PLATINUM: for 230V ; 88/92/94/93 for 115V ; 87/91/92/91
<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>	GOLD: 280W; PLATINUM: 300 W
<b>Power factor correction/active power</b>	active
<b>Monitor outlet</b>	Switched for PLATINUM power supply

**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=dd0b6607-e074-4070-b958-9b2d8cc9bd41">https://docs.ts.fujitsu.com/dl.aspx?id=dd0b6607-e074-4070-b958-9b2d8cc9bd41</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™ i9-10900 processor and 128GB, 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 Lw <sub>ad</sub> (in B) / Workplace related A-weighted sound pressure level Lp <sub>Am</sub> (in dB(A))
<b>Standard noise operation mode: CPU 50% load</b>	for PLATINUM PSU: 3.2 B / 19 dB(A) Bystander; 20 dB(A) Operator position (SSD M.2) 3.4 B / 21 dB(A) Bystander; 23 dB(A) Operator position (SSD M.2 and 3.5" HDD)
<b>Standard noise operation mode: HDD load</b>	for PLATINUM PSU: 3.2 B / 19 dB(A) Bystander; 20 dB(A) Operator position (SSD M.2) 3.5 B / 22 dB(A) Bystander; 24 dB(A) Operator position (SSD M.2 and 3.5" HDD)
<b>Standard noise operation mode: Idle mode</b>	for PLATINUM PSU: 3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position (SSD M.2) 3.4 B / 20 dB(A) Bystander; 23 dB(A) Operator position (SSD M.2 and 3.5" HDD)
<b>Standard noise operation mode: ODD load</b>	for PLATINUM PSU: 4.4 B / 31 dB(A) Bystander; 36 dB(A) Operator position (SSD M.2) 4.5 B / 31 dB(A) Bystander; 38 dB(A) Operator position (SSD M.2 and 3.5" HDD)
<b>Standard noise operation mode: Office applications 2.0</b>	for PLATINUM PSU: 3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position (SSD M.2) 3.4 B / 22 dB(A) Bystander; 23 dB(A) Operator position (SSD M.2 and 3.5" HDD)

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	314 x 296 x 89 mm 12.36 x 11.65 x 3.51 inch
<b>Operating position</b>	horizontal / vertical (optional, feet needed)
<b>Weight</b>	approx. 8 kg
<b>Weight (lbs)</b>	approx. 17.64 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 D9010
<b>Model</b>	DTG
<b>Germany</b>	TÜV GS

**Compliance**

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, depending on configuration TCO Certified 8.0 (depending on configuration) ENERGY STAR® compliance is an order option. Non ENERGY STAR/ TCO/ EPEAT compliant products are marked at brand name with additional suffix "n". EPEAT® in progress (dedicated regions)
China	CCC (planned) CCC (depending on configuration) CEL (Chinese energy label) TPM 2.0 for China (optional)
Compliance link	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**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.)

**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
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	<a href="http://www.fujitsu.com/fts/manageability">http://www.fujitsu.com/fts/manageability</a>

**Security**

Physical Security	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Cable Cover (optional; covers and secures the ports and cables on rear side)
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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 Internal dust filter (optional)
<b>Serviceability</b>	
	EasyFix EasyChange for single 3.5" HDD (optional) EasyChange for optical drives
<b>Packaging information</b>	
Max. quantity / pallet	24
Material - Weight (g) Carton	1117 g
Material - Weight (lbs) Carton	2.46 lbs
Material - Weight (g) EPS / PS	225 g
Material - Weight (lbs) EPS / PS	0.5 lbs
Material - Weight (g) PE	25 g
Material - Weight (lbs) PE	0.06 lbs
Packaging notes	printed user documentation is bleached in chlorine free process; Bulk packaging for projects (optional)
<b>Warranty</b>	
Warranty period	3 years
Warranty type	Bring-In / Onsite Service (depending on country)
Warranty Terms & Conditions	<a href="http://www.fujitsu.com/warranty">http://www.fujitsu.com/warranty</a>
<b>Product Support Services - the perfect extension</b>	
Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	<a href="http://www.fujitsu.com/emeia/products/product-support-services/">http://www.fujitsu.com/emeia/products/product-support-services/</a>

## Recommended Accessories

### Blue LED Mouse M960



The Blue LED Mouse M960 comes in a slim design with proven Fujitsu engineering quality. The track on glass Blue LED sensor enables ultra precise switchable resolution at 1,000, 1,600 and 2,000 dpi. Blue LED Mouse M960 makes your life easier because it's tailor-made for right handed users. It just feels great in your hand.

Order Code:  
S26381-K470-L100

## More information

### Fujitsu products, solutions & services

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

[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 D9010, 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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