

Fujitsu recommends Windows 10 Pro for business.

Data Sheet

FUJITSU Desktop ESPRIMO P9010

The workhorse for your desk

The FUJITSU ESPRIMO P9010 Desktop PC is the workhorse you need for your desk with high performance, high security, flexible graphics option and best-in-class connectivity. The latest Intel chipset with 10th Gen Intel® Core™ processor guarantees increased performance and great expandability options due to support of special purpose cards, increased encode/decode capabilities and broad variety of interface options makes this PC ready for your future high-end computing needs.



Powerful performance for demanding applications

Powerful performance, proven technology and long lasting supply ensures smooth sailing of demanding business applications

- Superior Intel® Q470 chipset with 10th generation Intel® Core™ processor family

Superior system management

Simple system administration for complex IT infrastructures

- Based on the stable Intel® vPro™ technology platform (depending on processor) and DeskView manageability suite

Best-in-Class connectivity

Be flexible and stay productive in a hyper-connected world

- Flexible graphics connector options: VGA, DVI-D, HDMI, Type-C
- Type C option supporting 60 Watt output power to run a display w/o extra power supply
- Legacy connectors as option: PS/2, serial port, parallel port

High security with integrated options

Designed to protect data and hardware components against manipulation and theft

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

Low Power Consumption

Reduced environmental impact and reduced energy bills

- "Modern Standby" mode prepared to reduce energy consumption while still being connected



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	<p>Intel® Core™ i9-10900 processor (10 Cores / 20 Threads, 2.80 GHz, 20 MB, Intel® UHD Graphics 630) **</p> <p>Intel® Core™ i7-10700 processor (8 Cores / 16 Threads, 2.90 GHz, 16 MB, Intel® UHD Graphics 630) **</p> <p>Intel® Core™ i5-10600 processor (6 Cores / 12 Threads, 3.30 GHz, 12 MB, Intel® UHD Graphics 630) *</p> <p>Intel® Core™ i5-10500 processor (6 Cores / 12 Threads, 3.10 GHz, 12 MB, Intel® UHD Graphics 630) *</p> <p>Intel® Core™ i5-10400 processor (6 Cores / 12 Threads, 2.90 GHz, 12 MB, Intel® UHD Graphics 630) *</p> <p>Intel® Core™ i3-10100 processor (4 Cores / 8 Threads, 3.60 GHz, 6 MB, Intel® UHD Graphics 630) *</p> <p>Intel® vPro® Platform Logo with Intel® Core™ i5-10500, Intel Core i5-10600, Intel® Core™ i7 and Intel® Core™ i9 processors</p> <p>*with Intel® Turbo Boost Technology 2.0 (clock speed and performance will vary depending on workload and other variables)</p> <p>**with Intel® Turbo Boost Max Technology 3.0 (clock speed and performance will vary depending on workload and other variables)</p>
Memory modules	<p>4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM</p> <p>8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM</p> <p>16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM</p> <p>32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM</p>
Mass storage 2.5 inch size	<p>SSD SATA III, 512 GB, 2.5-inch</p> <p>SSD SATA III, 256 GB, 2.5-inch</p>
Mass Storage M.2 technology	<p>SSD PCIe, 1024 GB M.2 NVMe module, SED</p> <p>SSD PCIe, 1024 GB M.2 NVMe module</p> <p>SSD PCIe, 512 GB M.2 NVMe module, SED</p> <p>SSD PCIe, 512 GB M.2 NVMe module</p> <p>SSD PCIe, 256 GB M.2 NVMe module, SED</p> <p>SSD PCIe, 256 GB M.2 NVMe module</p> <p>SSD PCIe, 128 GB M.2 NVMe module</p> <p>RAID1 Bundle 2x512GB M.2 NVMe Highend</p> <p>RAID1 Bundle 2x256GB M.2 NVMe Highend</p>
Mass storage 3.5 inch size	<p>HDD SATA III, 7,200 rpm, 2000 GB, 3.5-inch</p> <p>HDD SATA III, 7,200 rpm, 1000 GB, 3.5-inch, business critical</p> <p>HDD SATA III, 7,200 rpm, 1000 GB, 3.5-inch</p>
Mass storage 2.5 inch size	HDD SATA III, 5,400 rpm, 500 GB, 2.5-inch
Hard disk notes	<p>One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.</p> <p>SSD (Solid State Disk)</p> <p>SED (Self-Encrypting Drive)</p>
Graphics	<p>NVIDIA® Quadro® P620, 2 GB</p> <p>NVIDIA® Quadro® P400, 2 GB</p> <p>NVIDIA® GeForce® GTX 1650</p> <p>MiniDP to DP Adapter Cable</p>

Drives (optional)	BD Triple Writer SATA ultra slim (tray) DVD Super Multi DVD Super Multi ultra slim (tray) MultiCard Reader 15in1 USB 3.0 3.5"
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

Base unit

Base unit	ESPRIMO P9010
Mainboard	
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) Gig+ 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
I/O controller on board	
Serial ATA total	4
thereof SATA III	4
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI RAID 0/1/5/10
Interfaces	
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 (gen2); 1x USB 3.2 (gen2) Type-C (supports up to 15W)

Interfaces

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
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	6
2.5-inch internal bays	1
3.5-inch internal bays	2
3.5-inch external bays	1
5.25-inch external bays	2
Drive bay notes	5,25" bays: one bay in HH format, one bay for slim optical disc drive only; internal 3.5" bays: 3.5" drive (screwless) or 2.5" drive (screws; optional screwless)
M.2-2280	2 x on mainboard for SSD NVMe (PCIe 3.0 x4; up to 32Gbit/s)

Slots

PCI-Express 3.0 x1	1 x (110 mm / 4.33 inch) Full height
PCI-Express 3.0 x4 (mech. x16)	1 x (270 mm / 10.63 inch)
PCI-Express 3.0 x16	1 x (270 mm / 10.63 inch) Full height
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 (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)
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Graphics on board**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 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

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 GOLD: 280W; PLATINUM: 300 W

Power factor correction/active power active

Monitor outlet Switched for PLATINUM power supply

Power consumption

Power consumption note See white paper Energy Consumption

Link to Energy White Paper <https://docs.ts.fujitsu.com/dl.aspx?id=c1bc06d8-5024-474e-b127-57f71205b3b4>

Heat dissipation

Heat dissipation notes See white paper Energy Consumption

Noise emission

Related Processors for noise Intel® Core™ i5-10500 processor

Standard noise emission 8 GB, ODD, Windows 10
 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 2.6 B / 17 dB(A) Bystander; 20 dB(A) Operator position (SSD M.2, PLATINUM PSU)

Standard noise operation mode: HDD load 2.6 B / 17 dB(A) Bystander; 20 dB(A) Operator position (SSD M.2, PLATINUM PSU)

Standard noise operation mode: Idle mode 2.6 B / 16 dB(A) Bystander; 20 dB(A) Operator position (SSD M.2, PLATINUM PSU)

Standard noise operation mode: ODD load 4.6 B / 34 dB(A) Bystander; 40 dB(A) Operator position (SSD M.2, PLATINUM PSU)

Standard noise operation mode: Office applications 2.0 2.6 B / 17 dB(A) Bystander; 20 dB(A) Operator position (SSD M.2, PLATINUM PSU)

Dimensions / Weight / Environmental

Dimensions (W x D x H) 180 x 304 x 375 mm

7.09 x 11.97 x 14.76 inch

Operating position Vertical

Weight approx. 10 kg

Weight (lbs) approx. 22.05 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 P9010

Compliance

Model	MI7W
Germany	TÜV 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 compliant, 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	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.)

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

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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Security**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 (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

Serviceability

EasyFix
 EasyChange for HDD
 EasyChange for optical drives

Packaging information

Max. quantity / pallet	24
Material - Weight (g) Carton	1113 g
Material - Weight (lbs) Carton	2.45 lbs
Material - Weight (g) EPS / PS	164 g
Material - Weight (lbs) EPS / PS	0.36 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)

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

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

Keyboard KB955



The KB955 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB955 the ideal input device for any PC or Notebook user. If you accidentally spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.

S26381-K955-L4** (**: Country specific variation)

More information

Fujitsu products, solutions & services

In addition to FUJITSU Desktop ESPRIMO P9010, 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 P9010, 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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