

Fujitsu recommends Windows 10 Pro for business.

Datasheet

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 Intel® Q470 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 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, USB Type-C™
- USB Type-C™ option supporting 60 W output power to run a display w/o extra power supply
- Legacy connectors as option: serial port, parallel port

High security with integrated options

Designed to protect data and hardware components against manipulation and theft

- Optional Smartcard reader
- 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



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Specification

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® 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>
Operating systems	
Operating system pre-installed	Windows 10 Pro. Fujitsu recommends Windows 10 Pro for business.
Ethernet (RJ-45)	1
Memory modules	<p>32 GB (1 module(s) 32 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>8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM</p> <p>4 GB (1 module(s) 4 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>HDD SATA III, 500 GB, 5,400 rpm 2.5 inch</p> <p>SSD SATA III, 256 GB, 2.5 inch</p>
Mass storage M.2 technology	<p>SSD PCIe, 1,024 GB M.2 NVMe module, SED</p> <p>SSD PCIe, 1,024 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>
Mass storage 3.5 inch size	<p>HDD SATA III, 7,200 rpm, 2,000 GB, 3.5 inch</p> <p>HDD SATA III, 7,200 rpm, 1,000 GB, 3.5 inch Business critical</p> <p>HDD SATA III, 7,200 rpm, 1,000 GB, 3.5 inch</p>
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® P400 2 GB</p> <p>MiniDP to DP Adapter</p>
Drives (optional)	DVD Super Multi ultra slim (tray)
Interface add on cards / Components (optional)	<p>Gigabit Ethernet PCIe x1</p> <p>Parallel Interface FH</p> <p>1st Serial Port (active)</p> <p>Intel® WI-FI 6 AX200 and Bluetooth 5.1 vPro, SRD 5.8 GHz (dedicated regions only)</p> <p>Dual serial card PCIe x1</p>

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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. 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, 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 1x1 (5 Gbps) total	3 (1 internal)
USB 3.2 Gen 2x1 (10 Gbps) total	5 and 1 (optional)
USB front	2x USB 2.0 2x USB 3.2 Gen 2x1 1x USB 3.2 Gen 2x1 Type-C (supports up to 15 W)
USB rear	2x USB 2.0 2x USB 3.2 Gen 1x1 2x USB 3.2 Gen 2x1 Additional 1x USB 3.2 Gen 2 Type-C (supports DisplayPort 1.4 and power delivery (PD) up to 15 W or 60 W (occupies PCIe x16 slot)) (optional)
USB internal	1x USB 3.2 Gen 1x1 Type A
VGA	Optional
DisplayPort	2
DVI	DVI-D (optional)
Serial (RS-232)	1 (optional serial port (9 pin, 16 byte FIFO, 16550 compatible))
Ethernet (RJ-45)	1
Parallel	1 (optional (25 pin with EPP and ECP))
Interface module notes	Anytime USB charge functionality
Kensington Lock support	1

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Input device / Components	
Input devices (optional)	Keyboard Mouse
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 inch bays: one bay in HH format, one bay for slim optical disc drive only Internal 3.5 inch bays: 3.5 inch drive (screwless) or 2.5 inch drive (screws; optional screwless)
M.2-2280	1 x on mainboard for SSD NVMe (PCIe 3.0 x4; up to 32 Gbit/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 630
Shared video memory	Shared memory depending on main memory and operating system
TFT resolution (VGA)	Up to 1,920 x 1,080 pixel
TFT resolution (DVI)	Up to 1,920 x 1,080 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 <ul style="list-style-type: none"> ▪ DVI-D ▪ HDMI® ▪ VGA ▪ USB Type-C™ (supports DisplayPort™ 1.4 and power delivery (PD) up to 15 W) ▪ USB Type-C™ (supports DisplayPort™ 1.4 and power delivery (PD) up to 60 W. 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 60 Hz
Electrical values	
Power efficiency note	Power supply efficiency in % at 10% / 20% / 50% / 100% load 80Plus GOLD: For 230 V ; 87 / 90 / 92 / 91 For 115 V ; 86 / 89 / 91 / 88 80Plus PLATINUM: For 230 V ; 88 / 92 / 94 / 93 For 115 V ; 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: 280 W; PLATINUM: 300 W

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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 mode	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
Model	MI7W
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, 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".
China	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 30 days trial
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) 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.)

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Manageability	
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) 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 Eye for padlock
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 with any key (USB) Thermal management
Serviceability	
	EasyFix EasyChange for HDD EasyChange for optical drives
Packaging information	
Packaging dimension (mm)	495 x 300 x 490 mm
Packaging dimension (inch)	19.49 x 11.81 x 19.29 inch
Max. quantity / pallet	24
Material – weight (g) carton	1,113 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 (lbs) PE	25 g
Material – weight (lbs) PE	0.06 lbs
Packaging notes	Bulk packaging for projects (optional)
Warranty	
Warranty period	3 years (optional)
Warranty type	Bring-in / onsite service (depending on country)
Warranty terms & conditions	www.fujitsu.com/hk/microsite/warranty/
Product support services - the perfect extension	
Spare parts availability	5 years

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More information

Fujitsu OPTIMIZATION solutions

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

hk.fujitsu.com/pc

Software

www.fujitsu.com/software/

More information

To learn more about Fujitsu Desktop ESPRIMO P9010, 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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