FUJITSU

Fujitsu recommends Windows 10 Pro for business.

Data Sheet
FUJITSU Desktop ESPRIMO P5010

Flexible and economic desktop PC for standard office
applications

The FUJITSU ESPRIMO P5010 Desktop PC provides high-quality computing for your everyday office
tasks. Security functions such as SmartCard reader (optional), the EraseDisk feature and cable cover
help secure your valuable business data as well as hardware components. An easily configurable PC
to meet your specific hardware needs as well as customize it to satisfy even more complex project
requirements.

High performance and best price/performance ratio
Ensures smooth performance for standard office applications
■ Latest 10th generation Intel® Core™ processor family
■ Higher memory speed, higher clock frequency, improved integrated graphics

Manageability and Ease of Use
'"Plug & work" PC that ensures smooth system administration
■ Easy to integrate into existing IT landscapes and reliable DeskView manageability tools

Robust Security
Designed to protect data and hardware components against manipulation and theft
■ Cable cover with lock option at the back to protect ports, cables and components from theft.
■ Embedded Trusted Platform Module (TPM), passwords and EraseDisk software on system-level.
   SmartCard reader available as option

Best energy efficiency coupled with performance
Low power consumption combined with highest levels of performance
■ A monitor outlet switch for PLATINUM power supply

Made in Europe
Outstanding quality and stable functions based on European production standards
■ The development, production and functionality tests - all under one roof in Europe

Fujitsu recommends Windows 10 Pro for business.

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™ 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® Celeron® processor G5905 (2 Cores / 2 Threads, 3.50 GHz, 4 MB, Intel® UHD Graphics 610)
	Intel® Pentium® Gold G6400 (2 Cores / 4 Threads, 4.00 GHz, 4 MB, Intel® UHD Graphics 610)
	*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, 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
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 3.5 inch size	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
Mass storage 2.5 inch size	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)
Graphics	NVIDIA® Quadro® P620, 2 GB
	NVIDIA® Quadro® P400 , 2 GB
	NVIDIA® GeForce® GTX 1650
	MiniDP to DP Adapter Cable
Drives (optional)	BD Triple Writer SATA ultra slim (tray)
	DVD Super Multi
	DVD Super Multi ultra slim (tray)

Fujitsu recommends Windows 10 Pro for business.

Interface add on cards/components (optional)	
	Gigabit Ethernet PCIe x1
	WLAN 802.11ax (2x2) PCIe x1 FH and Bluetooth 5.0, SRD 5.8GHz (dedicated regions only)
	Dual serial card PCIe x1

Base unit

Base unit	ESPRIMO P5010
Mainboard	
Mainboard type	D3820
Formfactor	proprietary
Chipset	Intel® H410
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 Realtek RTL8111H
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	3
thereof SATA III	3
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI
Interfaces	
Audio: line-in	1
Audio: line-out	1
Front audio: headset	1
USB 2.0 total	6
USB 3.2 Gen1 (5 Gbps) total	4
USB front	2x USB 2.0; 2x USB 3.2 Gen 1
USB rear	2x USB 2.0; 2x USB 3.2 Gen 1
USB internal	2x USB 2.0
VGA	optional: via external active adapter cable
DisplayPort	2
Mouse / Keyboard (PS/2)	2 (optional)
Ethernet (RJ-45)	1
Interface Module notes	Anytime USB charge functionality
Kensington Lock support	1

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" 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	1 x on mainboard for SSD NVMe (PCIe 3.0 x4; up to 32Gbit/s)

Slots

PCI-Express 3.0 x1	1 x (270 mm / 10.63 inch) Full height
PCI-Express 3.0 x16	1 x (270 mm / 10.63 inch) Full height

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	Dual display support 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)
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=21b88b5b-6d30-4772-ba9d-f08dae75042b

Heat dissipation

Heat dissipation notes	See white paper Energy Consumption

Noise emission

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

Noise emission

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	2.5 B / 17 dB(A) Bystander; 18 dB(A) Operator position (SSD M.2, PLATINUM PSU) 3.1 B / 21 dB(A) Bystander; 25 dB(A) Operator position (3.5" HDD, GOLD PSU)
Standard noise operation mode: HDD load	2.5 B / 17 dB(A) Bystander; 18 dB(A) Operator position (SSD M.2, PLATINUM PSU) 3.6 B / 26 dB(A) Bystander; 27 dB(A) Operator position (3.5" HDD, GOLD PSU)
Standard noise operation mode: Idle mode	2.4 B / 17 dB(A) Bystander; 18 dB(A) Operator position (SSD M.2, PLATINUM PSU) 3.0 B / 21 dB(A) Bystander; 25 dB(A) Operator position (3.5" HDD, GOLD PSU)
Standard noise operation mode: ODD load	4.5 B / 34 dB(A) Bystander; 41 dB(A) Operator position (SSD M.2, PLATINUM PSU) 4.5 B / 34 dB(A) Bystander; 41 dB(A) Operator position (3.5" HDD, GOLD 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)
Product	ESPRIMO P5010
Model	MI7W
Germany	TÜV GS
Europe	CE
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 8.0, depending on configuration TCO Certified 8.0 (depending on configuration) EPEAT® Silver (dedicated regions), 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".
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 Eye for padlock Integrated cabinet lock (optional) Cable Cover (optional; covers and secures the ports and cables on rear side)

Fujitsu recommends Windows 10 Pro for business.

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)

Manageability

Manageability technology	DeskUpdate Driver management
	PXE 2.1 Boot code
	Wake up from S5 (off mode)
	WoL (Wake on LAN)
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

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

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 packagaging for projects (optional)

Warranty

Warranty period	1 year
Warranty type	Bring-In / Onsite Service (depending on country)
Warranty Terms & Conditions	http://www.fujitsu.com/warranty

Product Support Services - the perfect extension

Fujitsu recommends Windows 10 Pro for business.

Warranty	
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

USB 3.0 Certified Cable 2m		The FUJITSU USB 3.0 Certified Cable 2m provides a high quality, superspeed connection between your system's type A USB interface and peripherals that feature a USB type B port for example Fujitsu USB Port Replicators. With this substancial 2m USB 3.0 certified cable, you can easily manage longer distance connections.	Order Code: S26391-F6055-L320
Mouse M520 black		The FUJITSU Accessory Mouse M520 black is an essential input device for PCs that works on nearly every surface and follows your hand movements smoothly and precisely. It features two buttons and a scroll wheel which also can be used as third button.	Order Code: S26381-K467-L100
Keyboard KB410 USB		The Fujitsu Keyboard KB410 is a high quality and functional keyboard. With its space saving design it is a good solution for every workplace. The ergonomic key design allows fast and precise work. It is the perfectly reliable input device for all everyday office tasks when paired with either a desktop PC or another system with a USB interface.	S26381-K511-L4**; S26381-K511-E4**

More information

Fujitsu products, solutions & services

In addition to FUJITSU Desktop ESPRIMO P5010, 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 P5010, 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

Copyrights

Disclaimer