

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



# 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® 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)
<b>Ethernet (RJ-45)1</b>	
<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
<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® P620, 2 GB NVIDIA® Quadro® P400, 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 DVD Super Multi ultra slim (tray)

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

Gigabit Ethernet PCIe x1
WLAN 802.11ax (2x2) PCIe x1 FH and Bluetooth 5.0 (dedicated regions only)
Dual serial card PCIe x1

## Base unit

Base unit	ESPRIMO P5010
<b>Mainboard</b>	
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
<b>I/O controller on board</b>	
Serial ATA total	3
thereof SATA III	3
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI
<b>Interfaces</b>	
Audio: line-in	1
Audio: line-out	1
Front audio: headset	1
USB 2.0 total	6
USB 3.2 Gen 1 (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

**Interfaces**

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
------------------------	------------------------------------

**Heat dissipation**

Heat dissipation notes	See white paper Energy Consumption
------------------------	------------------------------------

**Noise emission**

<b>Related Processors for noise</b>	Intel® Core™ i5-10600 processor
<b>Standard noise emission</b>	8 GB, ODD, Windows 10 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))

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	180 x 304 x 375 mm 7.09 x 11.97 x 14.76 inch
<b>Operating position</b>	Vertical
<b>Weight</b>	approx. 10 kg
<b>Weight (lbs)</b>	approx. 30.86 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)
<b>Product</b>	ESPRIMO P5010
<b>Model</b>	M17W
<b>Germany</b>	GS (planned)
<b>Europe</b>	CE
<b>Global</b>	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® in progress EPEAT® in progress (dedicated regions)
<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) WoL (Wake on LAN)
<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>

<b>Security</b>	
<b>Physical Security</b>	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Cable Cover (optional; covers and secures the ports and cables on rear side)
<b>System and BIOS Security</b>	Embedded security (TPM 2.0) EraseDisk Credential Guard Ready and Device Guard Capable (Windows 10, v. 1809; requires 8 GB or more system RAM and SSD PCIe NVME) 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
<b>Serviceability</b>	
	EasyFix EasyChange for HDD EasyChange for optical drives
<b>Packaging information</b>	
<b>Max. quantity / pallet</b>	24
<b>Material - Weight (g) Carton</b>	1113 g
<b>Material - Weight (lbs) Carton</b>	2.45 lbs
<b>Material - Weight (g) EPS / PS</b>	164 g
<b>Material - Weight (lbs) EPS / PS</b>	0.36 lbs
<b>Material - Weight (g) PE</b>	25 g
<b>Material - Weight (lbs) PE</b>	0.06 lbs
<b>Packaging notes</b>	printed user documentation is bleached in chlorine free process; Bulk packaging for projects (optional)
<b>Warranty</b>	
<b>Warranty period</b>	1 year
<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

## 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/](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 P5010, 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>



### Copyrights

All rights reserved, including intellectual property rights. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see <http://www.fujitsu.com/emeia/resources/navigation/terms-of-use.html>  
Copyright 2020 Fujitsu Technology Solutions GmbH

### Disclaimer

Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner.

#### Contact

Fujitsu Technology Solutions GmbH  
Website: [www.fujitsu.com](http://www.fujitsu.com)  
2020-09-02 EM-EN

All rights reserved, including intellectual property rights. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see <http://www.fujitsu.com/emeia/resources/navigation/terms-of-use.html>  
Copyright 2020 Fujitsu Technology Solutions GmbH