

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

| 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 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 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) |
| 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) |

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 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

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|----------------------------|---|
| Power consumption note | See white paper Energy Consumption |
| Link to Energy White Paper | https://docs.tcs.fujitsu.com/dl.aspx?id=21b88b5b-6d30-4772-ba9d-f08dae75042b |

Heat dissipation

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

Noise emission

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|---|---|
| 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 L _{wad} (in B) / Workplace related A-weighted sound pressure level L _{pAm} (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

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|-------------------------------|--|
| 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 EPEAT® in progress (dedicated regions) TCO Certified 8.0 in progress 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

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|------------------------------------|---|
| 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

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|---------------------------------|--|
| 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 |

Security

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|---------------------------------|--|
| 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) |
| 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 |
|--|--|

Serviceability

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|--|--|
| | EasyFix EasyChange for HDD EasyChange for optical drives |
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Packaging information

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|---|--|
| 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 | 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 | |
| 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 substantial 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>



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2021-01-02 EM-EN

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