Fujitsu recommends Windows 10 Pro.

# Data Sheet
# FUJITSU Desktop ESPRIMO P556/E85+

## Your Flexible and Economic PC

The FUJITSU ESPRIMO P556/E85+ Desktop provides high-quality computing for your daily office tasks. It supports attractive price points and delivers the continuity needed for daily operations. Your valuable business data is protected by the latest TPM controller and the Erasedisk option. To meet your specific hardware needs it can be either individually configured or customized.



**High performance and best price/performance ratio**
Powerful and cost-effective microtower
- 6th generation Intel® Core™ processor family

**System management**
The perfect answer to offload your IT administrators
- DeskView Admin enhances the management of the devices in your IT infrastructure during productive operation – even during remote periods and after hours

**Made in Germany**
Outstanding quality and stable functions based on German production standards
- The development, production and functionality tests - all under one roof in Germany

**Lifecycle**
Hardware continuity for long-lasting project requirements
- Managed lifecycle of up to 12 months

**Meets ENERGY STAR® requirements**
Low power consumption and low costs, without any loss in performance
- 85% energy efficient power supply

Fujitsu recommends Windows 10 Pro.

# Components

| | |
|---|---|
| **Processor** | Intel® Core™ i7-6700 processor (4 Cores / 8 Threads, 3.40 GHz, up to 4.0 GHz, 8 MB, Intel® HD Graphics 530) *, ** |
| | Intel® Core™ i5-6600 processor (4 Cores / 4 Threads, 3.30 GHz, up to 3.9 GHz, 6 MB, Intel® HD Graphics 530) *, ** |
| | Intel® Core™ i5-6500 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 530) *, ** |
| | Intel® Core™ i5-6400 processor (4 Cores / 4 Threads, 2.70 GHz, up to 3.3 GHz, 6 MB, Intel® HD Graphics 530) *, ** |
| | Intel® Core™ i3-6100 processor (2 Cores / 4 Threads, 3.70 GHz, 3 MB, Intel® HD Graphics 530) ** |
| | Intel® Pentium® processor G4500 (2 Cores / 2 Threads, 3.50 GHz, 3 MB, Intel® HD Graphics 530) ** |
| | Intel® Pentium® processor G4400 (2 Cores / 2 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 510) ** |
| | Intel® Celeron® processor G3900 (2 Cores / 2 Threads, 2.80 GHz, 2 MB, Intel® HD Graphics 510) ** |
| | *with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)<br>**6th generation Intel® processor |
| **Operating systems** | |
| **Operating system pre-installed** | Windows 10 Pro. Fujitsu recommends Windows 10 Pro.<br>Windows 10 Home<br>Windows 7 Professional (available through downgrade rights from Windows 10 Pro) |
| **Operating system compatible** | Windows 8.1 Pro (available through downgrade rights from Windows 10 Pro)<br>openSUSE Linux |
| **Memory modules** | 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM |
| | 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM |
| | 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM |
| **Hard disk drives (internal)** | SSD SATA III, 512 GB, 2.5-inch |
| | SSD SATA III, 256 GB, 2.5-inch |
| | SSD SATA III, 256 GB, 2.5-inch, SED |
| | SSD SATA III, 128 GB, 2.5-inch |
| | SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch |
| | HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch, business critical |
| | HDD SATA II, 5,400 rpm, 500 GB, 2.5-inch* |
| | SSD SATA III, 512 GB, 2.5-inch, SED |
| | SSHD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch |
| | HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch |
| | HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch |
| | HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch |
| | HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical |
| **Hard disk notes** | Up to 20 GB of HDD space is reserved for system recovery<br>SSHD (Solid State Hard Disk, Hybrid drive)<br>SSD (Solid State Disk)<br>SED (Self-Encrypting Drive) |
| **Graphics** | VGA Extension Card |
| | NVIDIA® NVS™ 315, 1 GB |
| | NVIDIA® GeForce® GTX 745 2 GB FH, 2 GB |
| | LFH59/ 2x DVI-I adapter cable |
| | LFH59/ 2x DP adapter cable |
| | DVI-I to VGA Adapter |
| | DP to DVI-D (single link) Adapter Cable |
| | AMD® Radeon R7 340, 2 GB |

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| Drives (optional) | BD Triple Writer SATA ultra slim (tray) |
| | DVD-ROM |
| | DVD Super Multi |
| | DVD Super Multi ultra slim (tray) |
| | MultiCard Reader 24in1 USB 2.0 3.5" |
| Interface add on cards/components (optional) | |
| | WLAN 802.11ac (2x2) PCIe x1 FH and BT 4.1 (dedicated regions only, up to BT 4.2 depending on OS version) |
| | WLAN 802.11ac (2x2) PCIe x1 FH (dedicated regions only) |
| | Gigabit Ethernet PCIe x1, DS |
| | eSATA Interface |
| | Dual serial card PCIe x1 |

# Base unit

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|---|---|
| **Base unit** | ESPRIMO P556/E85+ |
| Mainboard | |
| **Mainboard type** | D3400 |
| **Formfactor** | µATX |
| **Chipset** | Intel® H110 |
| **Processor socket** | LGA 1151 |
| **Processor quantity maximum** | 1 |
| **Supported capacity RAM (max.)** | 32 GB |
| **Memory slots** | 2 DIMM (DDR4) |
| **Memory frequency** | 2,133 MHz |
| **Memory notes** | Dual channel support<br>For dual channel performance, 2 memory modules have to be ordered. Capacity per channel has to be the same. |
| **LAN** | 10/100/1,000 MBit/s Realtek RTL8111G |
| **BIOS version** | AMI Aptio V |
| **BIOS features** | BIOS Flash EPROM update by software<br>Recovery BIOS<br>Unified Extensible Firmware Interface (UEFI)<br>CSM (Compatibility Support Module) |
| **Audio type** | On board |
| **Audio codec** | Realtek ALC671 |
| **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 |
| **thereof eSATA** | 1 |
| **Controller functions** | Serial ATA III (6 Gbit)<br>NCQ<br>AHCI |
| Interfaces | |
| **Audio: line-in** | 1 |
| **Audio: line-in / microphone** | 1 |
| **Audio: line-out** | 1 |
| **Front audio: microphone** | 1 |
| **Front audio: headphone** | 1 |
| **USB 2.0 total** | 6 |
| **USB 3.1 Gen1 (USB 3.0) total** | 4 |

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| **Interfaces** | |
| USB front | 2x USB 2.0 or/and 2x USB 3.0 (optional) |
| USB rear | 2x USB 2.0; 2x USB 3.0 |
| USB internal | 2x USB 2.0 |
| VGA | optional: via adapter card |
| DisplayPort | 1 |
| DVI | 1 (DVI-D) |
| Mouse / Keyboard (PS/2) | 2 |
| Ethernet (RJ-45) | 1 |
| eSATA | 1 (optional) |
| Interface Module notes | Anytime USB charge functionality |
| **Input device / components** | |
| Input devices (optional) | Keyboard<br>Mouse<br>KBPC PX ECO<br>Mouse M440 ECO |
| **Drive bays** | |
| Drive bays total | 5 |
| 3.5-inch internal bays | 2 |
| 3.5-inch external bays | 1 |
| 5.25-inch external bays | 2 |
| Drive bay notes | 3.5" bays can be used for 2.5" drives |
| **Slots** | |
| PCI-Express 3.0 x16 | 1 x (210 mm / 8.27 inch) Full height |
| PCI-Express x1 | 2 x (190 mm / 7.48 inch) Full height |
| **Graphics on board** | |
| Graphics brand name | Intel® HD Graphics 510, Intel® HD Graphics 530 |
| Shared video memory | up to 1,782 MB |
| TFT resolution (VGA) | 1,024 x 768 pixel<br>1,280 x 1,024 pixel<br>1,360 x 768 pixel<br>1,440 x 900 pixel<br>1,600 x 900 pixel<br>1,600 x 1,200 pixel<br>1,680 x 1,050 pixel<br>1,920 x 1,080 pixel |
| TFT resolution (DVI) | 1,280 x 1,024 pixel<br>1,360 x 768 pixel<br>1,440 x 900 pixel<br>1,600 x 900 pixel<br>1,680 x 1,050 pixel<br>1,920 x 1,080 pixel<br>1,920 x 1,200 pixel |
| TFT resolution (DisplayPort) | 1,280 x 1,024 pixel<br>1,360 x 768 pixel<br>1,440 x 900 pixel<br>1,600 x 900 pixel<br>1,680 x 1,050 pixel<br>1,920 x 1,080 pixel<br>1,920 x 1,200 pixel<br>2,560 x 1,440 pixel<br>2,560 x 1,600 pixel<br>3,840 x 2,160 pixel<br>4,096 x 2,304 pixel |

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| **Graphics on board** | |
| **Graphics features** | Dual display support<br>DirectX® 12<br>HDCP support<br>OpenCL™ 2.0 (requires Intel® Core™ i3, i5 or i7 processors)<br>OpenGL® 4.4<br>One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter<br>For multi monitoring mode, graphics card and integrated graphics run in parallel<br>DisplayPort interface supports Ver. 1.2 incl. Multi-Stream<br>DVI-D interface supports audio output for HDMI monitors |
| **Graphics notes** | up to 1 GB dedicated video memory (main memory owned and locked for graphics use)<br>Tested resolutions, depending on display type additional resolutions and frequencies possible<br>Shared memory depending on main memory size and operating system<br>Resolution (color depth up to 32 Bit/pixel)<br>For TFT we recommend using 60Hz |
| **Electrical values** | |
| **Power efficiency note** | power supply efficiency (at 230V; 20% / 50% / 100% load) : 83% / 86% / 85% |
| | 0-Watt mode with hard-off switch |
| **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** | 280 W |
| **Power factor correction/active power** | active |
| **Monitor outlet** | No |
| **Power consumption** | |
| **Power consumption note** | See white paper Energy Consumption |
| **Link to Energy White Paper** | http://docs.ts.fujitsu.com/dl.aspx?id=8fbfcf07-7f86-4c5a-b4d5-22d71672893b |
| **Heat dissipation** | |
| **Heat dissipation notes** | See white paper Energy Consumption |
| **Noise emission** | |
| **Related Processors for noise** | Intel® Core™ i7 6700 |
| **Standard noise emission** | 2x4 GB, HDD, ODD, Windows<br>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** | 3.4 B / 21 dB(A) Bystander; 24 dB(A) Operator position |
| **Standard noise operation mode: HDD load** | 3.5 B / 21 dB(A) Bystander; 24 dB(A) Operator position |
| **Standard noise operation mode: Idle mode** | 3.4 B / 21 dB(A) Bystander; 24 dB(A) Operator position |
| **Standard noise operation mode: ODD load** | 4.5 B / 31 dB(A) Bystander; 36 dB(A) Operator position |
| **Standard noise operation mode: Office applications 2.0** | 3.4 B / 21 dB(A) Bystander; 24 dB(A) Operator position |
| **Blue angel noise emission according certification** | According to ISO 7779:2010, ECMA-74<br>for max. possible configuration |
| **Blue angel noise notes / description** | A-weighted sound power level Lwad (in B); 1B = 10dB |
| **Blue angel noise operation mode: HDD load** | 3.7 B = 37 dB (A) |
| **Blue angel noise operation mode: Idle mode** | 3.6 B = 36 dB (A) |
| **Blue angel noise operation mode: ODD load** | 4.7 B = 47 dB (A) |

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| **Dimensions / Weight / Environmental** | |
| **Dimensions (W x D x H)** | 175 x 425 x 353 mm |
| | 6.89 x 16.74 x 13.9 inch |
| **Operating position** | Vertical |
| **Weight** | 9 kg |
| **Weight (lbs)** | 20.22 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 P556/E85+ |
| **Model** | MI4W |
| **Germany** | TÜV GS |
| **Europe** | CE |
| **USA/Canada** | FCC Class B<br>cCSAus |
| **Global** | RoHS (Restriction of hazardous substances)<br>WEEE (Waste electrical and electronic equipment)<br>Microsoft Operating Systems (HCT / HCL entry / WHQL)<br>ENERGY STAR® 6.1 (dedicated regions)<br>EPEAT® Gold (dedicated regions) |
| **China** | CCC<br>China RoHS |
| **Compliance link** | https://sp.ts.fujitsu.com/sites/certificates |
| **Additional Software** | |
| **Additional software (preinstalled)** | Adobe® Reader® (pdf reader)<br>McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version)<br>Win7: Fujitsu Recovery (hard disk based recovery)<br>Win8: Microsoft Push Button Recovery (hard disk based recovery)<br>Microsoft Office (buy license to activate the pre-installed Microsoft Office) |
| **Additional software (optional)** | Recovery DVD for Windows®<br>Drivers & Utilities DVD (DUDVD)<br>CyberLink PowerDVD BD (playback software for Blu-ray Disc™)<br>CyberLink PowerDVD DVD (playback software for DVD)<br>Nero Essentials XL |
| **Manageability** | |
| **Manageability technology** | DeskUpdate Driver management<br>PXE 2.1 Boot code<br>Wake up from S5 (off mode)<br>WoL (Wake on LAN) |
| **Manageability software** | DeskView Client<br>DeskView Instant BIOS Management |
| **DeskView components** | BIOS Management incl. Security<br>Inventory Management<br>Driver Management<br>Alarm Management |
| **Supported standards** | DMI (Desktop Management Interface)<br>SMBIOS (System Management BIOS)<br>PXE (Preboot Execution Environment)<br>WMI (Windows Management Instrumentation)<br>WBEM (Web Based Enterprise Management)<br>CIM (Common Information Model) |
| **Security** | |
| **Physical Security** | Kensington Lock support<br>Eye for padlock |

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| **Security** | |
| **System and BIOS Security** | Embedded security (TPM 2.0)<br>EraseDisk (optional)<br>Boot sector virus protection<br>Write protect option for the Flash EPROM<br>Control of all USB interfaces<br>External USB ports can be disabled separately<br>Control of external interfaces |
| **User Security** | User and supervisor BIOS password<br>Hard disk password<br>Access protection via external SmartCard reader (optional)<br>Access protection via internal SmartCard reader (optional)<br>Workplace Protect (secure authentication solution) |
| **Workplace Embedded Tools** | Auto BIOS Update via Fujitsu Server<br>Auto BIOS Update via customer server (optional)<br>Easy PC Protection (optional) |
| **Miscellaneous** | |
| | Keyboard on (Special Fujitsu keyboard required)<br>Thermal management |
| **Serviceability** | |
| | EasyChange for single 3.5" HDD (optional)<br>EasyChange for single optical drive (optional)<br>Toolless serviceability for cabinet (optional) |
| **Packaging information** | |
| **Packaging dimension (mm)** | 516 x 278 x 562 mm |
| **Packaging dimension (inch)** | 20.31 x 10.94 x 22.13 inch |
| **Max. quantity / pallet** | 24 |
| **Material - Weight (g) Carton** | 1280 g |
| **Material - Weight (lbs) Carton** | 2.82 lbs |
| **Material - Weight (g) EPS / PS** | 140 g |
| **Material - Weight (lbs) EPS / PS** | 0.31 lbs |
| **Material - Weight (g) PE** | 60 g |
| **Material - Weight (lbs) PE** | 0.13 lbs |
| **Packaging notes** | printed user documentation is bleached in chlorine free process |
| **Warranty** | |
| **Warranty period** | 1 year (for countries in EMEIA) |
| **Warranty type** | Bring-In / Onsite Service (for countries within region EMEIA, for all other countries depending on local regulations) |
| **Warranty Terms & Conditions** | http://support.ts.fujitsu.com/warranty |
| **Product Support Services - the perfect extension** | |
| **Recommended Service** | 9x5, Onsite Response Time: Next Business Day |
| **Spare Parts availability** | 5 years after end of product life |
| **Service Weblink** | http://www.fujitsu.com/fts/services/support |

# Recommended Accessories

| | | | |
|---|---|---|---|
| **Display B24-8 TE Pro** |  | The FUJITSU Display B24-8 TE Pro is made for intensive office work. With visual and mechanical ergonomics this marble-grey display enables fatigue-free working for hours in front of the screen. The large 60.5 cm (23.8-inch) screen allows you to keep always track of all open applications. This high-quality display works unfailingly around the clock. Easy connectivity, manageability and usability help you increase your productivity. | Order Code:<br>S26361-K1577-V140 |

**Mouse M440 ECO**



Fujitsu Mouse M440 ECO is made from 100% bio material and has a completely PVC free cable. The elegant M440 ECO works on nearly every surface and follows all your hand movements smoothly and precisely. It features two main buttons and as well as a scroll wheel providing comfortable computing to both right and left-handed users.

Order Code:
S26381-K450-L200

**SOUNDSYSTEM DS E2000 Air**



The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting.

Order Code:
S26391-F7128-L600

# More information

## Fujitsu OPTIMIZATION Services

In addition to FUJITSU Desktop ESPRIMO P556/E85+, 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 P556/E85+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/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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2017-05-01 CE-EN

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