Fujitsu recommends Windows 10 Pro.

Data Sheet
FUJITSU Desktop ESPRIMO P957/E90+

Excellent Performance, Expandability and Efficiency

The FUJITSU ESPRIMO P957/E90+ Desktop provides highest manageability, performance and expandability. Its low noise design supports a pleasant working environment, and the 90% efficient power supply will reduce your energy bills. With its innovative Low Power Active Mode feature you are ready for instant communication in the modern office. The use of a common software load within the product series ensures perfect infrastructure compatibility. On retirement, the Fujitsu distinctive EraseDisk function securely wipes your data.

Quiet
Pleasant working environment due to an extremely quiet system
- Innovative hardware design, optimized cooling concept ensures silent operations

Always Available Office PC - stay connected and save power
Be ready for instant communication and a significantly reduced energy bill
- Innovative Low Power Active Mode and highly-efficient integrated power-supply

Energy efficiency and high performance
Low power consumption combined with high levels of performance
- 7th generation Intel® Core™ processor family, a switched monitor outlet and a power supply with 90% efficiency

System management
Simple system administration for complex IT infrastructures
- Intel® vPro™ technology (depending on processor) and DeskView manageability suite

Green technology
Another example of the Fujitsu commitment to environmental protection and sustainability
- Halogen-free printed circuit board of mainboard, sophisticated product concept for the entire lifecycle
## Components

### Processor
- Intel® Core™ i7-7700 processor (4 Cores / 8 Threads, 3.60 GHz, Up to 4.2 GHz, 8 MB, Intel® HD Graphics 630) *
- Intel® Core™ i7-7600 processor (4 Cores / 4 Threads, 3.40 GHz, Up to 4.0 GHz, 8 MB, Intel® HD Graphics 530) *, **
- Intel® Core™ i5-7600 processor (4 Cores / 4 Threads, 3.50 GHz, Up to 4.1 GHz, 6 MB, Intel® HD Graphics 630) *
- Intel® Core™ i5-7500 processor (4 Cores / 4 Threads, 3.40 GHz, Up to 3.8 GHz, 6 MB, Intel® HD Graphics 630) *
- 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™ i3-7100 processor (2 Cores / 4 Threads, 3.90 GHz, 3 MB, Intel® HD Graphics 630) *
- Intel® Core™ i3-6100 processor (2 Cores / 4 Threads, 3.70 GHz, 3 MB, Intel® HD Graphics 530) **

*Intel® vPro™ Logo with Intel® Core i5 and Core i7 processors
*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)
**6th generation Intel® processor

### Operating systems
- **Operating system**: Windows 10 Pro. Fujitsu recommends Windows 10 Pro. Windows 10 Home
- **Operating system compatible**: Windows 7 Professional 32-bit (with 6th generation Intel® processors)
  - Windows 7 Professional 64-bit (with 6th generation Intel® processors)
- **Microsoft OS support information**: Systems with 7th generation Intel® processor receive support from Microsoft with Windows 10 Home / Windows 10 Pro only. For more information, please see Microsoft Support Lifecycle.

### Memory modules
- 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,400 MHz, UDIMM
- 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,400 MHz, UDIMM
- 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,400 MHz, UDIMM

### Hard disk drives (internal)
- PCIe-SSD, 1024 GB Highend, M.2 module
- PCIe-SSD, 512 GB Highend, M.2 module
- PCIe-SSD, 256 GB Highend, M.2 module
- PCIe-SSD, 128 GB, M.2 module
- PCIe-SSD, 256 GB, M.2 module
- PCIe-SSD, 512 GB, M.2 module
- SSD SATA, 512 GB, M.2 module
- PCIe-SSD, 1024 GB, M.2 module
- SSD SATA, 256 GB, M.2 module
- SSD SATA, 128 GB, M.2 module
- SSD SATA III, 512 GB, 2.5-inch
- SSD SATA III, 256 GB, 2.5-inch
- SSD SATA III, 128 GB, 2.5-inch, SED
- SSD SATA III, 256 GB, 2.5-inch, SED
- SSHD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
- HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical
- HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch
- HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
- HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch
- HDD SATA II, 5,400 rpm, 500 GB, 2.5-inch*

### Hard disk notes
- Up to 20 GB of HDD space is reserved for system recovery
- SSHD (Solid State Hard Disk, Hybrid drive)
- SSD (Solid State Disk)
- SED (Self-Encrypting Drive)
Fujitsu recommends Windows 10 Pro.

### 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 RX 460, 4 GB**
- **AMD® Radeon R7 340, 2 GB**

### 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)
- Parallel Interface
- Gigabit Ethernet PCIe x1, DS
eSATA Interface
- Dual serial card PCIe x1

### Base unit

<table>
<thead>
<tr>
<th>Base unit</th>
<th>ESPRIMO P957/E90+</th>
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</thead>
<tbody>
<tr>
<td><strong>Mainboard</strong></td>
<td></td>
</tr>
<tr>
<td>Mainboard type</td>
<td>D3502</td>
</tr>
<tr>
<td>Formfactor</td>
<td>proprietary</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® Q270</td>
</tr>
<tr>
<td>Processor socket</td>
<td>LGA 1151</td>
</tr>
<tr>
<td>Processor quantity maximum</td>
<td>1</td>
</tr>
<tr>
<td>Supported capacity RAM (max.)</td>
<td>64 GB</td>
</tr>
<tr>
<td>Memory slots</td>
<td>4 DIMM (DDR4)</td>
</tr>
<tr>
<td>Memory frequency</td>
<td>2,400 MHz</td>
</tr>
</tbody>
</table>
| Memory notes | Dual channel support
For dual channel performance, 2 memory modules have to be ordered. Capacity per channel has to be the same.

DDR4 2,400 MHz will be clocked with 2,133 MHz in combination with 6th generation Intel® processor |

<table>
<thead>
<tr>
<th>LAN</th>
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<tbody>
<tr>
<td>10/100/1,000 MBit/s Intel® I219LM</td>
<td></td>
</tr>
<tr>
<td>BIOS version</td>
<td>AMI Aptio V</td>
</tr>
</tbody>
</table>
| BIOS features | BIOS Flash EPROM update by software
Recovery BIOS
Unified Extensible Firmware Interface (UEFI)
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 | 5 |
| thereof SATA III | 5 |
| thereof eSATA | 2 |
**I/O controller on board**

**Controller functions**
- Serial ATA III (6 Gbit)
- NCQ
- AHCI

**Interfaces**

| Audio: line-in | 1 |
| Audio: line-out | 1 |
| Front audio: microphone | 1 |
| Front audio: headphone | 1 |
| USB 2.0 total | 5 |
| USB 3.0 (= USB 3.1 Gen 1) total | 7 |
| USB 3.1 Gen 2 total | optional via add on card (planned May 2017) |
| USB front | 2x USB 2.0; 2x USB 3.0; 1x USB 3.1 Type C (Gen1); optional: 1x USB 3.1 Type C (Gen2) via add on card and front adapter bay |
| USB rear | 2x USB 2.0; 4x USB 3.0; optional: 1x USB 3.1 Type C (Gen2) via add on card |
| USB internal | 1x USB 2.0 |
| VGA | optional: via adapter card |
| DisplayPort | 2 |
| DVI | 1 (DVI-D) |
| Serial (RS-232) | optional: first and 2nd serial port (9pin, 16 byte FIFO, 16550 compatible) |
| Mouse / Keyboard (PS/2) | 2 |
| Ethernet (RJ-45) | 1 |
| Parallel | 1 (optional) (25pin with EPP and ECP) |
| eSATA | 1 (optional) |

**Interface Module notes**
- Anytime USB charge functionality, USB Type C connector supports up to 15W

**Input device / components**

**Input devices (optional)**
- Keyboard
- Mouse
- KBPC PX ECO
- Mouse M440 ECO

**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);
- drive cage for external 3.5" bay and internal 2.5" bay: optional

**M.2-2280**
- 1 x on mainboard (for PCIe or SATA SSD modules), supports Intel® Optane™ technology

**Slots**

- PCI-Express 3.0 x16 | 1 x (/ ) Full height
- PCI-Express 2.0 x4 (mech. x16) | 1 x (240 mm / 9.45 inch) Full height
- PCI-Express x1 | 2 x (/ ) Full height

**Graphics on board**

| Shared video memory | up to 1,782 MB |
| TFT resolution (VGA) | 1,024 x 768 pixel, 1,280 x 1,024 pixel, 1,360 x 768 pixel, 1,440 x 900 pixel, 1,600 x 900 pixel, 1,600 x 1,200 pixel, 1,680 x 1,050 pixel, 1,920 x 1,080 pixel |
### Graphics on board

| TFT resolution (DVI) | 1,280 x 1,024 pixel  
| 1,360 x 768 pixel  
| 1,440 x 900 pixel  
| 1,600 x 900 pixel  
| 1,680 x 1,050 pixel  
| 1,920 x 1,080 pixel  
| 1,920 x 1,200 pixel |

| TFT resolution (DisplayPort) | 1,280 x 1,024 pixel  
| 1,360 x 768 pixel  
| 1,440 x 900 pixel  
| 1,600 x 900 pixel  
| 1,680 x 1,050 pixel  
| 1,920 x 1,080 pixel  
| 1,920 x 1,200 pixel  
| 2,560 x 1,440 pixel  
| 2,560 x 1,600 pixel  
| 3,840 x 2,160 pixel  
| 4,096 x 2,304 pixel |

### Graphics features
- Support for up to three independent displays
- DirectX® 12
- HDCP support
- OpenCL™ 2.0 (requires Intel® Core™ i3, i5 or i7 processors)
- OpenGL® 4.4
- One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter
- For multi monitoring mode, graphics card and integrated graphics run in parallel
- DisplayPort interface supports Ver. 1.2 incl. Multi-Stream
- 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)
- 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 (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 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 | 280 W |
| Power factor correction/active power | active |
| Monitor outlet | Switched |

### Power consumption

### Heat dissipation

| Heat dissipation notes | See white paper Energy Consumption |

### 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 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 P957/E90+ |
| Model | MI6W |
| Germany | TÜV GS |
| Europe | CE |
### Compliance

<table>
<thead>
<tr>
<th>Region</th>
<th>Compliance Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA/Canada</td>
<td>FCC Class B, cCSAus</td>
</tr>
<tr>
<td>Global</td>
<td>RoHS (Restriction of hazardous substances), WEEE (Waste electrical and electronic equipment), Microsoft Operating Systems (HCT / HCL entry / WHQL), ENERGY STAR® 6.1 in progress, EPEAT® in progress (dedicated regions)</td>
</tr>
<tr>
<td>China</td>
<td>CCC (planned), TPM 2.0 for China (optional)</td>
</tr>
</tbody>
</table>

### Compliance link

http://globalsp.ts.fujitsu.com/sites/certificates

### Additional Software

#### Additional software (preinstalled)
- Adobe® Reader® (pdf reader)
- McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version)
- Microsoft Office (buy license to activate the pre-installed 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

### Manageability

#### Manageability technology
- DeskUpdate Driver management
- PXE 2.1 Boot code
- Wake up from S5 (off mode)
- Intrusion switch (optional)
- WoL (Wake on LAN)
- iAMT 11.6 (depending on processor)

#### Manageability software
- DeskView Client
- DeskView Instant BIOS Management

#### DeskView components
- BIOS Management incl. Security
- Inventory Management
- Driver Management
- Alarm Management

### 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)

#### System and BIOS Security
- Embedded security (TPM 2.0)
- EraseDisk (optional)
- Boot sector virus protection
- 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)
- Workplace Protect (secure authentication solution)

### Workplace Embedded Tools
- Auto BIOS Update via Fujitsu Server
- Auto BIOS Update via customer server (optional)
- Easy PC Protection (optional)

### Miscellaneous
- Keyboard on (Special Fujitsu keyboard required)
- Thermal management
- Low Power Active Mode
Serviceability

<table>
<thead>
<tr>
<th>Serviceability</th>
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<tbody>
<tr>
<td>EasyFix</td>
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<tr>
<td>EasyChange for HDD</td>
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<td>EasyChange for optical drives</td>
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Packaging information

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<th>Packaging information</th>
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<tr>
<td>Packaging notes</td>
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<tr>
<td>printed user documentation is bleached in chlorine free process</td>
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Warranty

<table>
<thead>
<tr>
<th>Warranty</th>
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<tbody>
<tr>
<td>Warranty period: 3 years (depending on country)</td>
</tr>
<tr>
<td>Warranty type: Bring-In / Onsite Service (for countries within region EMEIA, for all other countries depending on local regulations)</td>
</tr>
<tr>
<td>Warranty Terms &amp; Conditions: <a href="http://support.ts.fujitsu.com/warranty">http://support.ts.fujitsu.com/warranty</a></td>
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Recommended Service

<table>
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<tr>
<th>Recommended Service</th>
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<tbody>
<tr>
<td>9x5, Onsite Response Time: Next Business Day</td>
</tr>
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Spare Parts availability

<table>
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<tr>
<th>Spare Parts availability</th>
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<tbody>
<tr>
<td>5 years after end of product life</td>
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Service WebLink

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<tr>
<th>Service WebLink</th>
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<tr>
<td><a href="http://www.fujitsu.com/fts/services/support">http://www.fujitsu.com/fts/services/support</a></td>
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Recommended Accessories

Mouse M440 ECO

<table>
<thead>
<tr>
<th>Mouse M440 ECO</th>
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<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Order Code: S26381-K450-L200</td>
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SOUNDSYSTEM DS E2000 Air

<table>
<thead>
<tr>
<th>SOUNDSYSTEM DS E2000 Air</th>
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<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Order Code: S26391-F7128-L600</td>
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UC&C USB Headset Stereo H650e

<table>
<thead>
<tr>
<th>UC&amp;C USB Headset Stereo H650e</th>
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<tbody>
<tr>
<td>The UC&amp;C USB Headset Stereo H650e is the ultimate in style and functionality. Long, uncomfortable work calls are a thing of the past thanks to the cushioned ear pads and crystal clear sound. Adjustable headband and microphone provides the perfect fit for everyone. Optimized for Microsoft® Lync™ the headset displays a red ‘in-call’ LED to let your co-workers know when you’re available, thus helping to boost office productivity.</td>
</tr>
<tr>
<td>Order Code: S26391-F7139-L10</td>
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</tbody>
</table>
More information

Fujitsu OPTIMIZATION Services
In addition to FUJITSU Desktop ESPRIMO P957/E90+, 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/

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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