Data Sheet
Fujitsu ESPRIMO P900 E85+
Desktop PC

The Expandable Business Workhorse

Fujitsu ESPRIMO P900 PCs give you the absolute highest PC manageability, performance and expandability. The optional Zero Noise PCs help you focus on your work and with 94% efficient power supply with 0-Watt technology, you’ll also save on energy costs. The use of identical components ensures perfect infrastructure compatibility. At retirement, Fujitsu’s distinctive EraseDisk function wipes your data securely.

Microtower
Maximum performance and optimal extendability
- High-quality, high-value microtower, 7 drive bays, 4 PCI/PCI express interfaces

Green technology
Fujitsu’s contribution to environmental protection for the continued existence of our planet
- Halogen-free printed circuit of mainboard and power supply, sophisticated product concept for the entire lifecycle

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

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

Energy efficiency and intelligent performance
Low power consumption combined with top performance
- 2nd generation Intel® Core™ processors with Turbo Boost 2.0 and Hyper-Threading technology and a power supply with up to 86% efficiency
Components

Fujitsu recommends Windows® 7.

**Processor**

- Intel® Core™ i7-2600 processor (4 Cores / 8 Threads, 3.40 GHz, 8 MB, Intel® HD Graphics 2000)
- Intel® Core™ i5-2500 processor (4 Cores / 4 Threads, 3.30 GHz, 6 MB, Intel® HD Graphics 2000)
- Intel® Core™ i5-2400 processor (4 Cores / 4 Threads, 3.10 GHz, 6 MB, Intel® HD Graphics 2000)
- Intel® Core™ i3-2120 processor (2 Cores / 4 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics 2000)
- Intel® Pentium® processor G850 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics)
- Intel® Pentium® processor G840 (2 Cores / 2 Threads, 2.80 GHz, 3 MB, Intel® HD Graphics)
- Intel® Pentium® processor G630 (2 Cores / 2 Threads, 2.70 GHz, 3 MB, Intel® HD Graphics)
- Intel® Pentium® processor G620 (2 Cores / 2 Threads, 2.60 GHz, 3 MB, Intel® HD Graphics)
- Intel® Celeron® processor G530 (2 Cores / 2 Threads, 2.40 GHz, 2 MB, Intel® HD Graphics)

**Operating systems**

- Genuine Windows® 7 Home Basic (EM) 32-bit
- Genuine Windows® 7 Home Premium 64-bit
- Genuine Windows® 7 Professional 32-bit
- Genuine Windows® 7 Professional 64-bit

**Memory modules**

- 2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
- 4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM

**Hard disk drives (internal)**

- SSD SATA III, 256 GB, 2.5-inch
- SSD SATA III, 128 GB, 2.5-inch
- SSD SATA, 128 GB, 2.5-inch
- HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch
- HDD SATA III, 7200 rpm, 500 GB, 3.5-inch, business critical
- HDD SATA III, 7200 rpm, 500 GB, 3.5-inch
- HDD SATA III, 7200 rpm, 320 GB, 3.5-inch
- HDD SATA III, 7200 rpm, 250 GB, 3.5-inch
- HDD SATA II, 7200 rpm, 320 GB, 2.5-inch
- HDD SATA II, 7200 rpm, 160 GB, 2.5-inch
- HDD SATA, 500 GB, 2.5-inch
- HDD SATA, 320 GB, 2.5-inch

**Hard disk notes**

- Up to 18 GB of HDD space is reserved for system recovery

**Graphics add on cards (optional)**

- NVIDIA® Quadro® NVS 300, 512 MB
- NVIDIA® GeForce® GT 420
- NVIDIA® GeForce® 405 display port full height
- LFH59/ 2x DVI-I adapter cable
- LFH59/ 2x DP adapter cable
- DP to DVI-D (single link) Adapter Cable
- ATI Radeon® HD 5450, 512 MB
- 2nd NVIDIA® Quadro® NVS 300, 512 MB
### Drives (optional)
- BD Triple Writer SATA slim (tray)
- Blu-ray Disc™ Triple Writer
- DVD-ROM
- DVD Super Multi
- MultiCard Reader 20in1, USB 2.0, 3.5-Inch
- MultiCard Reader 20in1 USB 3.0 front con., 3.5-Inch

### Interface add on cards/components
- WLAN III, 802.11g/Draft- n (Windows only)
- USB 3.0 PCIe x1
- Parallel Interface
- Gigabit Ethernet PCIe x1, DS
- eSATA Interface
- Dual serial card PCIe x1, powered
- Dual serial card PCIe x1

### Base unit
- ESPRIMO P900 E85+

### Mainboard
- Mainboard type: D3062
- Formfactor: μATX
- Chipset: Intel® Q67
- Processor socket: LGA 1155
- Processor quantity maximum: 1
- Memory slots: 4 DIMM (DDR3)
- Supported capacity RAM (max.): 32 GB
- Memory frequency: 1333 MHz
- Memory notes: Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same. > 16 GB support with future memory modules

### LAN
- 10/100/1000 MBit/s Intel® 82579 LM

### BIOS version
- AMI Aptio 4.6

### BIOS features
- BIOS Flash EPROM update by software
- Recovery BIOS
- Unified Extensible Firmware Interface (UEFI)
- FastOn

### Audio codec
- Conexant CX20642

### Audio features
- Internal speaker supports audio playback, High Definition audio, 5.1 surround sound

### I/O controller on board
- Serial ATA total: 6
- thereof SATA III: 2
- thereof eSATA: 2 (optional)
- Controller functions: Serial ATA II (3 Gbit)
- Serial ATA III (6 Gbit)
- NCQ
- AHCI
- Raid 1/0

### Interfaces
- Audio: line-in: 1
- Audio: line-in / microphone: 1
- Audio: line-out: 1
- Front audio: microphone: 1
- Front audio: headphone: 1
## Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB 2.0 total</td>
<td>14</td>
</tr>
<tr>
<td>USB 3.0 total</td>
<td>optional</td>
</tr>
<tr>
<td>USB front</td>
<td>4</td>
</tr>
<tr>
<td>USB rear</td>
<td>8</td>
</tr>
<tr>
<td>USB internal</td>
<td>2</td>
</tr>
<tr>
<td>VGA</td>
<td>1 (via DVI to VGA adapter, part of shipment)</td>
</tr>
<tr>
<td>DisplayPort</td>
<td>1</td>
</tr>
<tr>
<td>DVI</td>
<td>1 (DVI-I)</td>
</tr>
<tr>
<td>Serial (RS-232)</td>
<td>1 (9pin, 16 byte FIFO, 16550 compatible)</td>
</tr>
<tr>
<td>Mouse / Keyboard (PS/2)</td>
<td>2</td>
</tr>
<tr>
<td>Ethernet (RJ-45)</td>
<td>1</td>
</tr>
<tr>
<td>Parallel</td>
<td>1 (optional) (25pin with EPP and ECP)</td>
</tr>
<tr>
<td>eSATA</td>
<td>1 (optional)</td>
</tr>
</tbody>
</table>

**Interface Module notes**

Anytime USB charge functionality

## Input device / components

- Optical USB tilt wheel mouse
- Optical USB/PS2 tilt wheel mouse
- KBPC PX ECO
- Mouse M440 ECO

## Drive bays

<table>
<thead>
<tr>
<th>Bays Type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive bays total</td>
<td>7</td>
</tr>
<tr>
<td>2.5-inch internal bays</td>
<td>1</td>
</tr>
<tr>
<td>3.5-inch internal bays</td>
<td>2</td>
</tr>
<tr>
<td>3.5-inch external bays</td>
<td>2</td>
</tr>
<tr>
<td>5.25-inch external bays</td>
<td>2</td>
</tr>
</tbody>
</table>

## Slots

<table>
<thead>
<tr>
<th>Slot Type</th>
<th>Count</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI-Express 2.0 x16</td>
<td>1 x (312 mm)</td>
<td>Full height</td>
</tr>
<tr>
<td>PCI-Express 2.0 x4 (mech. x16)</td>
<td>1 x (312 mm)</td>
<td>Full height</td>
</tr>
<tr>
<td>PCI-Express x1</td>
<td>1 x (312 mm)</td>
<td>Full height</td>
</tr>
<tr>
<td>PCI (32-bit / 33 MHz)</td>
<td>1 x (170 mm)</td>
<td>Full height</td>
</tr>
</tbody>
</table>

## Graphics on board

- **Graphics brand name**: Intel® HD Graphics or HD Graphics 2000 (depending on CPU)
- **Shared video memory**: up to 1759 MB
- **TFT resolution (VGA)**:
  - 1024 x 768 pixel
  - 1280 x 1024 pixel
  - 1360 x 768 pixel
  - 1440 x 900 pixel
  - 1600 x 900 pixel
  - 1600 x 1200 pixel
  - 1680 x 1050 pixel
  - 1920 x 1080 pixel
  - 1920 x 1200 pixel
- **TFT resolution (DVI)**:
  - 1360 x 768 pixel
  - 1440 x 900 pixel
  - 1600 x 900 pixel
  - 1680 x 1050 pixel
  - 1920 x 1080 pixel
  - 1920 x 1200 pixel
Fujitsu recommends Windows® 7.

## Graphics on board

<table>
<thead>
<tr>
<th>TFT resolution (DisplayPort)</th>
<th>1360 x 768 pixel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1440 x 900 pixel</td>
</tr>
<tr>
<td></td>
<td>1600 x 900 pixel</td>
</tr>
<tr>
<td></td>
<td>1680 x 1050 pixel</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080 pixel</td>
</tr>
<tr>
<td></td>
<td>1920 x 1200 pixel</td>
</tr>
<tr>
<td></td>
<td>2560 x 1440 pixel</td>
</tr>
<tr>
<td></td>
<td>2560 x 1600 pixel</td>
</tr>
</tbody>
</table>

## Graphics features

- Dual display support
- DirectX 10.1
- HDCP support
- OpenGL® 2.1
- For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows 7® only)

## Graphics notes

- 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; 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
- 0-Watt mode with hard-off switch

### Link to Energy White Paper

- [http://docs.ts.fujitsu.com/dl.aspx?id=0c06ac4b-6c90-4d28-81a0-c3b694da40d5](http://docs.ts.fujitsu.com/dl.aspx?id=0c06ac4b-6c90-4d28-81a0-c3b694da40d5)

## Heat dissipation

### Heat dissipation notes

- See white paper Energy Consumption

## Noise for standard configuration (HDD, ODD, FDD)

### Noise emission

- According to ISO9296

### Related Processors for noise

- Intel® Core™ i5 2400

### Noise Operation mode 1: ODD load (Blue angel requirement)

- 3.9 B/ 26 dB(A)

### Noise Operation mode 2: HDD load (Blue angel requirement)

- 3.3 B/ 20 dB(A)

### Noise Operation mode 3: CPU 90% load (Blue angel requirement)

- 3.4 B/ 21 dB(A)

### Noise Operation mode 4: High load

- 3.4 B/ 21 dB(A)

### Noise Operation mode 5: Office applications 2.0

- 3.3 B/ 20 dB(A)

### Idle mode (Blue Angel requirement)

- 3.3 B/ 20 dB(A)

### Noise notes / description

- A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position

## Dimensions / Weight / Environmental

### Dimensions (W x D x H)

- 175 x 419 x 395 mm

### Operating position

- Vertical

### Weight

- approx. 11 kg

### Weight notes

- Actual weight may vary depending on configuration
Dimensions / Weight / Environmental

Operating ambient temperature 10 - 35°C

Compliance

Product ESPRIMO P900
Model MI5W-3062
Germany TÜV GS
Europe CE
Nordic Swan
USA/Canada FCC Class B
cCSAus

Global RoHS (Restriction of hazardous substances)
WEEE (Waste electrical and electronic equipment)
Microsoft Operating Systems (HCT / HCL entry / WHQL)
ENERGY STAR®
EPEAT® Gold (dedicated regions)

Compliance link https://sp.ts.fujitsu.com/sites/certificates/

Additional Software

Additional software (preinstalled) Nero Essentials S (burning software)
Fujitsu Recovery (Hard Disk Based Recovery)
Norton Internet Security (incl. Firewall) 60 days version
Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®. Buy Office 2010 to use the full-featured software.

Additional software (optional) Recovery DVD for Windows®
Drivers & Utilities DVD (DUDVD)
CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not supported under Windows XP if the system runs on Intel onboard graphics)

Miscellaneous

Keyboard on (Special Fujitsu keyboard required)
Thermal management
Extended lifetime

Compatibility (references)

DMI 2.0
PC 2001
WMI 1.5
USB 2.0
SMBIOS

Manageability

Manageability technology DeskUpdate Driver management
PXE 2.1 Boot code
Wake up from S5 (off mode)
Intrusion switch (optional)
iAMT 7.0

Manageability software DeskView 10.x client management including:

DeskView components On/Offline remote client management
Detailed system inventory management and reports
BIOS Management
Remote power management
System notifications
Security Remote Control
DeskView Helpdesk Integration
WoL (Wake on LAN)

Manageability link http://ts.fujitsu.com/manageability
http://www.altiris.com/fujitsu
Fujitsu recommends Windows® 7.

Security

**System protection**
- Kensington Lock support
- Eye for padlock
- Optional: Integrated cabinet lock

**Audit proof protection**
- EraseDisk (optional)
- Boot sector virus protection
- Write protect option for the Flash EPROM
- Embedded security (TPM 1.2)
- Control of all USB interfaces
- External USB ports can be disabled separately
- Control of external interfaces

**Access protection**
- User and supervisor BIOS password
- Hard disk password
- Optional: Access protection via external SmartCard reader
- Optional: Access protection via internal SmartCard reader

Serviceability

- EasyFix
- EasyChange for HDD
- EasyChange for optical drives

Packaging information

**Packaging dimension**
- 516x278x562 mm

**Max. quantity / pallet**
- 24

**Material - Weight (g)**
- Carton: 1405 g
- EPS / PS: 160 g
- PE: appr. 60 g

**Packaging notes**
- Printed user documentation is bleached in chlorine free process

Warranty

**Standard Warranty**
- 3 years

**Service level**
- Bring-In / On-Site Service (depending on country)

**Maintenance and Support Services - the perfect extension**
- Recommended Service: 5x9, Response Time: Next Business Day
- Spare Parts availability: 5 years

**Service Weblink**
- http://ts.fujitsu.com/Supportservice
Fujitsu platform solutions
In addition to Fujitsu ESPRIMO P900 E85+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information
Learn more about Fujitsu ESPRIMO P900 E85+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com/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 resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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