The Innovative 0-Watt PC

FUJITSU ESPRIMO E920 PCs give you the absolute highest PC manageability, performance and expandability. These 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.

0-Watt PC
Cost savings by completely reducing off-mode losses
- Patented function for 0-Watt power consumption in off mode with simultaneous management in a time slot that can be optionally set

Zero Noise PC
Pleasant working environment due to completely quiet system (solid state disk required)
- Fan stop in standard operations

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

Energy efficiency coupled with intelligent performance
The best-in-class regarding power consumption combined with new levels of performance
- 4th generation Intel® Core™ processor family, a switched monitor outlet and a power supply with up to 94% efficiency

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

### Processor
- Intel® Core™ i7-4790 processor (4 Cores / 8 Threads, 3.60 GHz, up to 4.0 GHz, 8 MB, Intel® HD Graphics 4600) *
- Intel® Core™ i5-4690 processor (4 Cores / 4 Threads, 3.50 GHz, up to 3.9 GHz, 6 MB, Intel® HD Graphics 4600) *
- Intel® Core™ i5-4590 processor (4 Cores / 4 Threads, 3.30 GHz, up to 3.7 GHz, 6 MB, Intel® HD Graphics 4600) *
- Intel® Core™ i3-4170 processor (2 Cores / 4 Threads, 3.70 GHz, 3 MB, Intel® HD Graphics 4400)
- Intel® Pentium® processor G3460 (2 Cores / 2 Threads, 3.50 GHz, 3 MB, Intel® HD Graphics)
- Intel® Pentium® processor G3260 (2 Cores / 2 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics)
- Intel® Celeron® processor G1840 (2 Cores / 2 Threads, 2.80 GHz, 2 MB, Intel® HD Graphics)
- *with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)
- Intel® vPro™ Logo with Intel® Core i5 and Core i7 processors
- Intel® Smart Response Technology supported by Intel® Core™ i3, i5 and i7 processors

### Operating systems
- Windows 8.1 Pro
- Windows 8.1
- Windows 7 Professional 64-bit
- Windows 7 Professional 32-bit
- Windows 10 Pro (license + recovery media only)
- openSUSE Linux

### Memory modules
- 2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1,600 MHz, PC3-12800, DIMM
- 4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1,600 MHz, PC3-12800, DIMM
- 8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1,600 MHz, PC3-12800, DIMM

### Hard disk drives (internal)
- SSD SATA III Premium, 512 GB, 2.5-inch
- SSD SATA III Premium, 256 GB, 2.5-inch
- SSD SATA III Premium, 128 GB, 2.5-inch
- SSD SATA III, 256 GB, 2.5-inch
- SSD SATA III, 128 GB, 2.5-inch
- SSD SATA III, 256 GB, 2.5-inch, SED
- SSD SATA III, 128 GB, 2.5-inch, SED
- SSD SATA III, 7,200 rpm, 1,000 GB, 3.5-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 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, 320 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)

### Graphics
- NVIDIA® NVS™315 LP, 1 GB
- NVIDIA® GeForce® GTX 745 2 GB LP, 2 GB
- NVIDIA® GeForce® GT630 DisplayPort 2GB LP "0-Watt", 2 GB
- NVIDIA® GeForce® 605 DisplayPort 1GB LP, 1 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
- DP Extension Card
### Drives (optional)

- BD Triple Writer SATA slim (tray)
- DVD-ROM
- DVD Super Multi
- MultiCard Reader 24in1 USB 2.0 3.5"

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

- WLAN B02.11 a/g/n (2x2), (dedicated regions only, not for Indonesia)
- 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 E920 0-Watt</th>
</tr>
</thead>
</table>

#### Mainboard

- **Mainboard type**: D3222
- **Formfactor**: μATX
- **Chipset**: Intel® Q87
- **Processor socket**: LGA 1150
- **Processor quantity maximum**: 1
- **Supported capacity RAM (max.)**: 32 GB
- **Memory slots**: 4 DIMM (DDR3)
- **Memory frequency**: 1,600 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.

#### BIOS version

- 10/100/1,000 MBit/s Intel® I217LM

#### BIOS features

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

#### Audio type

- On board

#### Audio codec

- Realtek ALC671

#### 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**: 6
- **thereof eSATA**: 2

#### Controller functions

- Serial ATA II (3 Gbit)
- Serial ATA III (6 Gbit)
- NCQ
- AHCI
- RAID 0/1/5/10

#### 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**: 10
### Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB 3.1 Gen1 (USB 3.0) total</td>
<td>4</td>
</tr>
<tr>
<td>USB front</td>
<td>4x 2.0 or 2x 2.0/2x 3.0 (optional)</td>
</tr>
<tr>
<td>USB rear</td>
<td>4x 2.0 / 2x 3.0</td>
</tr>
<tr>
<td>USB internal</td>
<td>2</td>
</tr>
<tr>
<td>VGA</td>
<td>1</td>
</tr>
<tr>
<td>DisplayPort</td>
<td>1 (second DisplayPort optional)</td>
</tr>
<tr>
<td>DVI</td>
<td>1 (DVI-D)</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>
<tr>
<td>Interface Module notes</td>
<td>Anytime USB charge functionality</td>
</tr>
</tbody>
</table>

### Input device / components

- Optical USB wheel mouse

### Input devices (optional)

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

### Drive bays

<table>
<thead>
<tr>
<th>Drive bays total</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5-inch internal bays</td>
<td>1</td>
</tr>
<tr>
<td>3.5-inch external bays</td>
<td>1</td>
</tr>
<tr>
<td>5.25-inch external bays</td>
<td>1</td>
</tr>
</tbody>
</table>

**Drive bay notes**

- 3.5" bay can be used for 2.5" drives; optional external bay as internal 3.5";

### Slots

<table>
<thead>
<tr>
<th>Slot Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI-Express 3.0 x16</td>
<td>1 x (200 mm / 7.87 inch) Low profile</td>
</tr>
<tr>
<td>PCI-Express 2.0 x4 (mech. x16)</td>
<td>1 x (200 mm / 7.87 inch) Low profile</td>
</tr>
<tr>
<td>PCI-Express x1</td>
<td>2 x (174 mm / 6.85 inch) Low profile</td>
</tr>
</tbody>
</table>

### Graphics on board

<table>
<thead>
<tr>
<th>Graphics brand name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® HD Graphics, HD Graphics 4400, HD Graphics 4600 (depending on processor)</td>
<td>up to 1,782 MB</td>
</tr>
</tbody>
</table>

#### TFT resolution (VGA)

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,024 x 768 pixel</td>
<td></td>
</tr>
<tr>
<td>1,280 x 1,024 pixel</td>
<td></td>
</tr>
<tr>
<td>1,360 x 768 pixel</td>
<td></td>
</tr>
<tr>
<td>1,440 x 900 pixel</td>
<td></td>
</tr>
<tr>
<td>1,600 x 900 pixel</td>
<td></td>
</tr>
<tr>
<td>1,600 x 1,200 pixel</td>
<td></td>
</tr>
<tr>
<td>1,680 x 1,050 pixel</td>
<td></td>
</tr>
<tr>
<td>1,920 x 1,080 pixel</td>
<td></td>
</tr>
</tbody>
</table>

#### TFT resolution (DVI)

<table>
<thead>
<tr>
<th>Resolution</th>
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</tr>
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<tbody>
<tr>
<td>1,280 x 1,024 pixel</td>
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<td></td>
</tr>
<tr>
<td>1,680 x 1,050 pixel</td>
<td></td>
</tr>
<tr>
<td>1,920 x 1,080 pixel</td>
<td></td>
</tr>
<tr>
<td>1,920 x 1,200 pixel</td>
<td></td>
</tr>
</tbody>
</table>
Graphics on board

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
- 2,560 x 1,440 pixel
- 2,560 x 1,600 pixel
- 3,840 x 2,160 pixel (requires Intel® Core™ i3, i5 or i7 processor)

Graphics features
- Support for up to three independent displays
- DirectX® 11.1
- HDCP support
- OpenCL® 1.2
- OpenGL® 4.0
- 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 (Microsoft® Windows® 7 or Windows 8)

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; 20% / 50% / 100% load) : 91% / 94% / 92%
- 0-Watt mode automatically

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

Power consumption note
- See white paper Energy Consumption
- 0-Watt mode automatically

Link to Energy White Paper

Heat dissipation

Heat dissipation notes
- See white paper Energy Consumption

Noise emission

Related Processors for noise
- Intel® Core™ i7 4770

Standard noise emission
- 2x2 GB, HDD, ODD, Windows
- According to ISO 7779:2010, ECMA-74

Standard noise operation mode: CPU
- 50% load
- 3.4 B / 21 dB(A) Bystander; 25 dB(A) Operator position

Standard noise operation mode: HDD
- load
- 3.3 B / 20 dB(A) Bystander; 24 dB(A) Operator position

Standard noise operation mode: Idle
- mode
- 3.2 B / 18 dB(A) Bystander; 21 dB(A) Operator position

Standard noise operation mode: ODD
- load
- 4.4 B / 30 dB(A) Bystander; 35 dB(A) Operator position

Standard noise operation mode: Office
- applications 2.0
- 3.2 B / 18 dB(A) Bystander; 21 dB(A) Operator position

Blue angel noise emission according certification
- According to ISO 7779:2010, ECMA-74
- for max. possible configuration
Noise emission

Blue angel noise operation mode: HDD load
3.8 B = 38 dB (A)

Blue angel noise operation mode: Idle mode
3.4 B = 34 dB (A)

Blue angel noise operation mode: ODD load
4.5 B = 45 dB (A)

Dimensions / Weight / Environmental

Dimensions (W x D x H) 340 x 382 x 98 mm
13.39 x 15.04 x 3.86 inch

Operating position horizontal / vertical (optional, feet needed)

Weight 10 kg

Weight (lbs) 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)

Compliance

Product ESPRIMO E920

Model DT8

Germany TÜV GS
Blauer Engel / Blue Angel

Europe CE

USA/Canada FCC Class B

Global RoHS (Restriction of hazardous substances)
WEEE (Waste electrical and electronic equipment)
Microsoft Operating Systems (HCT / HCL entry / WHQL)
EPEAT® Gold (dedicated regions)
ENERGY STAR® 6.0 (dedicated regions)

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

Additional Software

Additional software (preinstalled) Workplace Protect (secure authentication solution)
Adobe® Reader® (pdf reader)
McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version)
Win7: Fujitsu Recovery (hard disk based recovery)
Win8: Microsoft Push Button Recovery (hard disk based recovery)
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)
iAMT 9.0 (depending on CPU)
WoL (Wake on LAN)

Manageability software DeskView Client
DeskView Instant BIOS Management

DeskView components Inventory Management
BIOS Management
Driver Management
Security Management
Alarm Management
**Manageability**

**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**

**Physical Security**
- Kensington Lock support
- Eye for padlock
- Integrated cabinet lock (optional)

**System and BIOS Security**
- EraseDisk
- 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

**User Security**
- User and supervisor BIOS password
- Hard disk password
- Access protection via external SmartCard reader (optional)
- Access protection via internal SmartCard reader (optional)

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

**Serviceability**

**EasyFix**

**EasyChange**
- for 3.5” HDD
- for optical drives

**Packaging information**

**Packaging dimension (mm)**
467 x 265 x 540 mm

**Packaging dimension (inch)**
18.39 x 10.43 x 21.26 inch

**Max. quantity / pallet**
28

**Material - Weight (g)**
- Carton: 1180 g
- EPS / PS: 180 g
- PE: 60 g

**Material - Weight (lbs)**
- Carton: 2.6 lbs
- EPS / PS: 0.4 lbs
- PE: 0.13 lbs

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

**Warranty period**
3 years (depending on country)

**Warranty type**
- Bring-In / Onsite Service (for countries within region EMEIA, for all other countries depending on local regulations)

**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

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**Recommended Accessories**
### Display B23T-7 LED

The FUJITSU B23T-7 LED Display with excellent ergonomics makes intensive office work extremely comfortable. This highly reliable display offers superb usability and power-saving features to help reduce your labor as well as energy costs. With wide viewing angle technology, flexible connectivity, and easy manageability, the FUJITSU B23T-7 LED Display can help you improve productivity.

Order Code: S26361-K1496-V140

### 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: 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

### UC&C USB Headset Stereo H650e

The UC&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.

Order Code: S26391-F7139-L10

### Keyboard KBPC PX ECO

Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The keyboard is made out of 45% renewable raw material and comes with a PVC free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras.

Order Code: S26381-K341-L1** (**: country specific variation)
In addition to Fujitsu ESPRIMO E920 0-Watt, 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/products/computing/

**Software**
www.fujitsu.com/software/

Learn more about Fujitsu ESPRIMO E920 0-Watt, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com

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