

# Data Sheet

## Fujitsu ESPRIMO E720 E90+

### Combines High Efficiency with Manageability

FUJITSU ESPRIMO E720 PCs bring you highly expandable technology for your challenging business applications. The use of identical components within the product family ensures perfect infrastructure compatibility and simplifies rollout. A 92%-efficient power supply will ensure environmental compliance for years to come. Intel® Standard Manageability Technology keeps administration costs to a minimum. Plus, EraseDisk ensures secure system retirement.

#### Small form factor PC

Flexible desktop solution whatever the space required

- Less than 13 liters volume, can be positioned vertically and horizontally

#### Energy Efficiency

Low power consumption and low costs, without any loss in performance

- Sophisticated technology, switched monitor outlet, low energy-consuming processors and enhanced power management settings

#### Green technology

Fujitsu's contribution to environmental protection and sustainability

- Halogen-free printed circuit of mainboard and power supply, sophisticated product concept for the entire lifecycle

#### Quiet

Pleasant working environment due to an extremely quiet system

- Innovative hardware design, optimized cooling concept ensures silent operations

#### Serviceability

Easy to extend and optimal user-friendliness without any additional tools

- Easy access to all replaceable and expandable components



# Components

<b>Processor</b>	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)
<b>Operating systems</b>	
<b>Operating system</b>	Windows 8.1 Pro Windows 8.1 Windows 7 Professional 64-bit Windows 7 Professional 32-bit
<b>Operating system compatible</b>	Windows 10 Pro (license + recovery media only) openSUSE Linux
<b>Memory modules</b>	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
<b>Hard disk drives (internal)</b>	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 SSHD 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
<b>Hard disk notes</b>	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)
<b>Graphics</b>	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

<b>Drives (optional)</b>	BD Triple Writer SATA slim (tray)
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 24in1 USB 2.0 3.5"

<b>Interface add on cards/components (optional)</b>	WLAN 802.11 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

<b>Base unit</b>	ESPRIMO E720 E90+
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<b>Mainboard</b>	
<b>Mainboard type</b>	D3221
<b>Formfactor</b>	µATX
<b>Chipset</b>	Intel® Q85
<b>Processor socket</b>	LGA 1150
<b>Processor quantity maximum</b>	1
<b>Supported capacity RAM (max.)</b>	32 GB
<b>Memory slots</b>	4 DIMM (DDR3)
<b>Memory frequency</b>	1,600 MHz
<b>Memory notes</b>	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.
<b>LAN</b>	10/100/1,000 MBit/s Intel® I217LV
<b>BIOS version</b>	AMI Aptio 4.6
<b>BIOS features</b>	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
<b>Audio type</b>	On board
<b>Audio codec</b>	Realtek ALC671
<b>Audio features</b>	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound

<b>I/O controller on board</b>	
<b>Serial ATA total</b>	5
<b>thereof SATA III</b>	4
<b>thereof eSATA</b>	2
<b>Controller functions</b>	Serial ATA II (3 Gbit) Serial ATA III (6 Gbit) NCQ AHCI

<b>Interfaces</b>	
<b>Audio: line-in</b>	1
<b>Audio: line-in / microphone</b>	1
<b>Audio: line-out</b>	1
<b>Front audio: microphone</b>	1
<b>Front audio: headphone</b>	1
<b>USB 2.0 total</b>	10
<b>USB 3.1 Gen1 (USB 3.0) total</b>	4

**Interfaces**

USB front	4x 2.0 or 2x 2.0/ 2x 3.0 (optional)
USB rear	4x 2.0 / 2x 3.0
USB internal	2
VGA	1
DisplayPort	1 (second DisplayPort optional)
DVI	1 (DVI-D)
Serial (RS-232)	1 (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

**Input device / components**

	Optical USB wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse KBPC PX ECO Mouse M440 ECO

**Drive bays**

Drive bays total	3
3.5-inch internal bays	1
3.5-inch external bays	1
5.25-inch external bays	1
Drive bay notes	3.5" bay can be used for 2.5" drives; optional external bay as internal 3.5";

**Slots**

PCI-Express 3.0 x16	1 x (200 mm / 7.87 inch) Low profile
PCI-Express 2.0 x4 (mech. x16)	1 x (200 mm / 7.87 inch) Low profile
PCI-Express x1	2 x (174 mm / 6.85 inch) Low profile

**Graphics on board**

Graphics brand name	Intel® HD Graphics, HD Graphics 4400, HD Graphics 4600 (depending on processor)
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
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 (requires Intel® Core™ i3, i5 or i7 processor)

**Graphics on board**

<b>Graphics features</b>	Support for up to three independent displays DirectX® 11.1 HDCP support Open CL® 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)
<b>Graphics notes</b>	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**

<b>Power efficiency note</b>	power supply efficiency (at 230V; 20% / 50% / 100% load) : 88% / 92% / 91%
<b>Rated voltage range</b>	100 V - 240 V
<b>Rated frequency range</b>	50 Hz - 60 Hz
<b>Operating voltage range</b>	90 V - 264 V
<b>Operating line frequency range</b>	47 Hz - 63 Hz
<b>Max. output of single power supply</b>	280 W
<b>Power factor correction/active power</b>	active
<b>Monitor outlet</b>	Switched

**Power consumption**

<b>Power consumption note</b>	See white paper Energy Consumption
<b>Link to Energy White Paper</b>	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=5e79214c-4a1d-4afa-a4f4-1fa74db847f1">http://docs.ts.fujitsu.com/dl.aspx?id=5e79214c-4a1d-4afa-a4f4-1fa74db847f1</a>

**Heat dissipation**

<b>Heat dissipation notes</b>	See white paper Energy Consumption
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**Noise emission**

<b>Related Processors for noise</b>	Intel® Core™ i7 xxxx
<b>Standard noise emission</b>	2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
<b>Standard noise operation mode: CPU 50% load</b>	3.7 B / 24 dB(A) Bystander; 27 dB(A) Operator position
<b>Standard noise operation mode: HDD load</b>	3.4 B / 21 dB(A) Bystander; 24 dB(A) Operator position
<b>Standard noise operation mode: Idle mode</b>	3.3 B / 20 dB(A) Bystander; 22 dB(A) Operator position
<b>Standard noise operation mode: ODD load</b>	4.5 B / 30 dB(A) Bystander; 36 dB(A) Operator position
<b>Standard noise operation mode: Office applications 2.0</b>	3.3 B / 20 dB(A) Bystander; 22 dB(A) Operator position
<b>Blue angel noise emission according certification</b>	According to ISO 7779:2010, ECMA-74 for max. possible configuration
<b>Blue angel noise operation mode: HDD load</b>	3.8 B = 38 dB (A)
<b>Blue angel noise operation mode: Idle mode</b>	3.5 B = 35 dB (A)
<b>Blue angel noise operation mode: ODD load</b>	4.5 B = 45 dB (A)

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	340 x 382 x 98 mm 13.39 x 15.04 x 3.86 inch
<b>Operating position</b>	horizontal / vertical (optional, feet needed)
<b>Weight</b>	10 kg

**Dimensions / Weight / Environmental**

<b>Weight (lbs)</b>	22.05 lbs
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	10 - 35 °C (50 - 95 °F)
<b>Operating relative humidity</b>	5 - 85 % (relative humidity)

**Compliance**

<b>Product</b>	ESPRIMO E720
<b>Model</b>	DT8
<b>Germany</b>	TÜV GS Blauer Engel / Blue Angel
<b>Europe</b>	CE
<b>USA/Canada</b>	FCC Class B cCSAus
<b>Global</b>	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)
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**Additional Software**

<b>Additional software (preinstalled)</b>	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)
<b>Additional software (optional)</b>	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**

<b>Manageability technology</b>	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) Intel® Standard Manageability WoL (Wake on LAN)
<b>Manageability software</b>	DeskView Client DeskView Instant BIOS Management
<b>DeskView components</b>	Inventory Management BIOS Management Driver Management Security Management Alarm Management
<b>Supported standards</b>	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)
<b>Manageability link</b>	<a href="http://www.fujitsu.com/fts/manageability">http://www.fujitsu.com/fts/manageability</a>

**Security**

<b>Physical Security</b>	Kensington Lock support Eye for padlock Integrated cabinet lock (optional)
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<b>Security</b>	
<b>System and BIOS Security</b>	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
<b>User Security</b>	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)
<b>Miscellaneous</b>	
	Keyboard on (Special Fujitsu keyboard required) Thermal management Extended lifetime
<b>Serviceability</b>	
	EasyFix EasyChange for 3.5" HDD EasyChange for optical drives
<b>Packaging information</b>	
<b>Packaging dimension (mm)</b>	467 x 265 x 540 mm
<b>Packaging dimension (inch)</b>	18.39 x 10.43 x 21.26 inch
<b>Max. quantity / pallet</b>	28
<b>Material - Weight (g) Carton</b>	1180 g
<b>Material - Weight (lbs) Carton</b>	2.6 lbs
<b>Material - Weight (g) EPS / PS</b>	180 g
<b>Material - Weight (lbs) EPS / PS</b>	0.4 lbs
<b>Material - Weight (g) PE</b>	60 g
<b>Material - Weight (lbs) PE</b>	0.13 lbs
<b>Packaging notes</b>	printed user documentation is bleached in chlorine free process
<b>Warranty period</b>	1 year (for countries in EMEA)
<b>Warranty type</b>	Bring-In / Onsite Service (for countries within region EMEA, for all other countries depending on local regulations)
<b>Recommended Service</b>	9x5, Onsite Response Time: Next Business Day
<b>Spare Parts availability</b>	5 years
<b>Service Weblink</b>	<a href="http://www.fujitsu.com/fts/services/support/index.html">http://www.fujitsu.com/fts/services/support/index.html</a>

## 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

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**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

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**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

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**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

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**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.

S26381-K341-L1\*\* (\*\*:  
country specific variation)



## More information

In addition to Fujitsu ESPRIMO E720 E90+, 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/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

### More information

Learn more about Fujitsu ESPRIMO E720 E90+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.fujitsu.com>

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2017-04-01 CE-EN

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