

# Data Sheet FUJITSU Desktop ESPRIMO E920 E90+

### Combines High Efficiency with Manageability

FUJITSU ESPRIMO E920 PCs give you the absolute highest PC manageability, performance and expandability. With the 92% efficient power supply, you'll also save on energy costs. The use of identical components within the family ensures perfect infrastructure compatibility. At retirement, Fujitsu's distinctive EraseDisk function wipes your data securely.

### Small form factor PC

Flexible desktop solution whatever the space required

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

### 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

### Energy efficiency coupled with high performance

Low power consumption combined with high performance

■ 4th generation Intel® Core™ processor family and a power supply with 90% energy efficiency

### System management

Simple system administration for complex IT infrastructures

■ Intel® vPro™ technology (depending on processor) and DeskView manageability suite

### Quiet

Pleasant working environment due to an extremely quiet system

■ Innovative hardware design, optimized cooling concept ensures silent operations











# 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)	
	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)	
	Intel® Smart Response Technology supported by Intel® Core™ i3, i5 and i7 processors	
Operating systems		
Operating system	Windows 8.1 Pro	
	Windows 8.1	
	Windows 7 Professional 64-bit Windows 7 Professional 32-bit	
Operating system compatible	Windows 10 Pro (license + recovery media only)	
spending system companie	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	
	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	
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	

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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 802.11 a/g/n (2x2), (dedicated regions only, not for Indonesia)	
	Parallel Interface	
	Gigabit Ethernet PCle x1, DS	
	eSATA Interface	
	Dual serial card PCIe x1	

## Base unit

Base unit	ESPRIMO E920 E90+				
Mainboard					
Mainboard type	D3222				
Formfactor	μΑΤΧ				
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.				
LAN	10/100/1,000 MBit/s Intel® I217LM				
BIOS version	AMI Aptio 4.6				
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					
USB 3.0 total	4				
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				
	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				
	$1,680 \times 1,050$ pixel $1,920 \times 1,080$ pixel				
	1,920 x 1,200 pixel				
	to the Property of the Propert				

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Graphics on board				
TFT resolution (DisplayPort)	1,280 x 1,024 pixel			
Tri lesolution (DisplayPort)	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			
<u> </u>	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			
	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)			
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) : 88% / 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				
Power consumption note	See white paper Energy Consumption			
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=cbcd2eac-ee62-448e-af36-a45326c50cbb			
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	3.4 B / 21 dB(A) Bystander; 24dB(A) Operator position			
50% load				
Standard noise operation mode: HDD load	3.3 B / 20 dB(A) Bystander; 24 dB(A) Operator position			
Standard noise operation mode: Idle	3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position			
mode	5.2 67 13 66(1) bystander, 21 db(1) operator position			
Standard noise operation mode: ODD load	4.4 B / 30 dB(A) Bystander; 36 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			
Blue angel noise operation mode: HDD	3.9 B = 39 dB (A)			
load				

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Noise emission				
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 cCSAus			
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	http://globalsp.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			

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Managoahilit:	
Manageability Supported standards	DMI (Dackton Management Interface)
Supported standards	DMI (Desktop Management Interface) SMBIOS (System Management BIOS)
	PXE (Preboot Execution Environment)
	WMI (Windows Management Instrumentation)
	WBEM (Web Based Enterprise Management)
Manageability link	CIM (Common Information Model)  http://www.fujitsu.com/fts/manageability
	nttp://www.tujitsu.com/rts/manageability
Security  Description of Community	Vanciantes Lauli susanat
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
	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)
	Access protection via internal smartcard leader (optional)
Miscellaneous	
	Keyboard on (Special Fujitsu keyboard required) Thermal management
	Extended lifetime
Serviceability	
Serviceability	EasyFix
	EasyChange for 3.5" HDD
	EasyChange 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
Material - Weight (lbs) Carton	2.6 lbs
Material - Weight (g) EPS / PS	180 g
Material - Weight (lbs) EPS / PS	0.4 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	3 years (depending on country)
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	
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

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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-K149
Display P24W-7 LED	Service Servic	If you're a pixel, color and performance-hungry professional using demanding applications, the FUJITSU P24W-7 LED Display is the perfect choice. The display provides outstanding picture performance thanks to a cutting-edge graphic panel. It also boasts unique and innovative features such as our patent-applied Presence Sensor technology and the Always Available Powered USB Hub.	Order Code: S26361-K149
Display P24T-7 LED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	For demanding pixel and performance-hungry professionals, the FUJITSU P24T-7 LED Display is the perfect choice. The display provides exceptional picture and color performance. It also boasts unique and innovative features such as USB support even in standby, the patent-applied Presence Sensor to detect the screen during absence and a call indicator to signal	Order Code: S26361-K154

ofessionals, the FUJITSU lay provides exceptional ue and innovative patent-applied Presence call indicator to signal incoming calls and prepares you for modern UC&C applications.

Fujitsu Mouse M440 ECO is made from 100% bio material and has a Order Code: completely PVC free cable. The elegant M440 ECO works on nearly every surface and follows all your hand movements smoothly and precisely.

S26381-K450-L200

S26361-K1496-V140

S26361-K1498-V140

S26361-K1543-V140

**UC&C USB Headset Stereo** H650e

Mouse M440 ECO



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.

It features two main buttons and as well as a scroll wheel providing comfortable computing to both right and left-handed users.

> Order Code: S26391-F7139-L10

**HS E2000 Communicator** Headset



The Fujitsu HS E2000 Communicator headset allows you to use your personal computer for Voice over IP (VoIP) in stereo audio quality. This premium headset is designed to provide superb audio quality and comfort for the telephony, internet chat, speech recognition, video conferencing and multimedia applications.

Order Code: S26391-F7139-L5

Keyboard KBPC PX ECO



Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The S26381-K341-L1\*\* (\*\*: keyboard is made out of 45% renewable raw material and comes with a PVC country specific variation) 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.

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### More information

### Fujitsu OPTIMIZATION Services

In addition to FUJITSU Desktop ESPRIMO E920 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/

### More information

Learn more about FUJITSU Desktop ESPRIMO E920 E90+, 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/qlobal/about/environment



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