Fujitsu recommends Windows.

# Data Sheet FUJITSU ESPRIMO E720 E90+ Desktop PC

### 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

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™ i3-4160 processor (2 Cores / 4 Threads, 3.60 GHz, 3 MB, Intel® HD Graphics 4400)	
	Intel® Core™ i3-4150 processor (2 Cores / 4 Threads, 3.50 GHz, 3 MB, Intel® HD Graphics 4400)	
	Intel® Pentium® processor G3450 (2 Cores / 2 Threads, 3.40 GHz, 3 MB, Intel® HD Graphics)	
	Intel® Pentium® processor G3440 (2 Cores / 2 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics)	
	Intel® Pentium® processor G3250 (2 Cores / 2 Threads, 3.20 GHz, 3 MB, Intel® HD Graphics)	
	Intel® Pentium® processor G3240 (2 Cores / 2 Threads, 3.10 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)	
Operating systems		
Operating system	Windows 8.1 Pro	
	Windows 8.1 Windows 7 Professional 64-bit	
	Windows 7 Professional 32-bit	
Operating system compatible	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 notes	Up to 20 GB of HDD space is reserved for system recovery	
	SSHD (Solid State Hard Disk, Hybrid drive)	
	SSD (Solid State Disk)	
Uned disk deiters (internal)	SED (Self-Encrypting Drive)	
Hard disk drives (internal)	SSHD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch	
	SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch	
	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, SED	
	SSD SATA III, 256 GB, 2.5-inch	
	SSD SATA III, 128 GB, 2.5-inch, SED	
	SSD SATA III, 128 GB, 2.5-inch	
	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, business critical	
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch	
	HDD SATA III, 7,200 rpm, 250 GB, 3.5-inch	
	HDD SATA II, 5,400 rpm, 320 GB, 2.5-inch	

Graphics	NVIDIA® NVS 300 LP, 512 MB	
	NVIDIA® NVS 300, 1 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 to VGA Adapter	
	DP to DVI-D (single link) Adapter Cable	
	DP Extension Card	
	2nd NVIDIA® Quadro® NVS 300 LP, 512 MB	
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 PCIe x1, DS	
	eSATA Interface	
	Dual serial card PCIe x1	

### Base unit

Base unit	ESPRIMO E720 E90+
Mainboard	
Mainboard type	D3221
Formfactor	μΑΤΧ
Chipset	Intel® Q85
Processor socket	LGA 1150
Processor quantity maximum	1
Memory slots	4 DIMM (DDR3)
Supported capacity RAM (max.)	32 GB
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® I217LV
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	5
thereof SATA III	4
thereof eSATA	2

I/O controller on board	
Controller functions	Serial ATA II (3 Gbit)
	Serial ATA III (6 Gbit)
	NCQ
	AHCI
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
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
	1,600 x 1,200 pixel
	1,920 x 1,080 pixel

Standard noise operation mode: Idle mode	3.3 B / 20 dB(A) Bystander; 22 dB(A) Operator position
Standard noise operation mode: HDD load	3.4 B / 21 dB(A) Bystander; 24 dB(A) Operator position
Standard noise operation mode: CPU 50% load	3.7 B / 24 dB(A) Bystander; 27 dB(A) Operator position
Standard noise notes / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
Standard noise emission	2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
Related Processors for noise	Intel® Core™ i7 xxxx
Noise emission	latal@ CaraTM :7
Heat dissipation notes	See white paper Energy Consumption
Heat dissipation	
57 1	http://docs.ts.fujitsu.com/dl.aspx?id=5e79214c-4a1d-4afa-a4f4-1fa74db847f1
Power consumption note Link to Energy White Paper	See white paper Energy Consumption
Power consumption	See white paper Energy Consumption
Monitor outlet	Switched
Power factor correction/active power	active
Max. output of single power supply	280 W
Operating line frequency range	47 Hz - 63 Hz
Rated frequency range Operating voltage range	50 Hz - 60 Hz 90 V - 264 V
Rated voltage range	
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 88% / 92% / 91% 100 V - 240 V
Electrical values	$P_{\text{A}} = \frac{1}{2} \left[ \frac{1}{2} \frac{1}{2$
	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
Graphics notes	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 Window 8) up to 1 GB dedicated video memory (main memory owned and locked for graphics use)
Graphics features	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) Support for up to three independent displays
TFT resolution (DisplayPort)	1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel
	1,360 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 (DVI)	1,280 x 1,024 pixel

Noise emission	
Standard noise operation mode: ODD load	4.5 B / 30 dB(A) Bystander; 36 dB(A) Operator position
Standard noise operation mode: Office applications 2.0	3.3 B / 20 dB(A) Bystander; 22 dB(A) Operator position
Blue angel noise emission according certification	According to ISO 7779:2010, ECMA-74 for max. possible configuration
Blue angel noise notes / description	A-weighted sound power level Lwad (in B); 1B = 10dB
Blue angel noise operation mode: HDD	3.8 B = 38 dB (A)
load	
Blue angel noise operation mode: Idle mode	3.5 B = 35 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 ℃ (50 - 95 °F)
Operating relative humidity	5 - 85 % (relative humidity)
Compliance	
Product	ESPRIMO E720
Model	DT8
Germany	TÜV GS Blauer Engel / Blue Angel
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) 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 <sup>®</sup> Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™) CyberLink PowerDVD DVD (playback software for DVD) Nero Essentials XL

Maaaaabilibu	
Manageability	Deckladate Driver management
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code
	Wake up from S5 (off mode)
	Intrusion switch (optional)
	Intel® Standard Manageability WoL (Wake on LAN)
Managaahilibu saftuuasa	DeskView Client
Manageability software	DeskView Client DeskView Instant BIOS Management
	DeskView Integration for Symantec Management Platform
DeskView components	Inventory Management
	BIOS Management
	Driver Management Security Management
	Alarm Management
Supported standards	DMI
-	PXE
	WMI
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 (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
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
	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	1140 g 2.51 lbs
Material - Weight (lbs) Carton 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
	r
Warranty	
Standard Warranty	1 year (depending on country)
Service level	Bring-In / Onsite Service

Warranty		
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty	
Maintenance and Support Services - I	he perfect extension	
Recommended Service	9x5, Response Time: Next Business Day	
Spare Parts availability	5 years	
Service Weblink	http://www.fujitsu.com/fts/services/support/index.html	

### **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 B24W-7 LED	The FUJITSU B24W-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 B24W-7 LED Display can help you improve productivity.	S26361-K1497-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
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
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 <sup>®</sup> Lync <sup>™</sup> 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
Busylight UC Lync	Boost communication and productivity in the office with the Busylight. The genius of this device is that it both advertises your present working state and promotes the use of Lync, making your office more efficient. Perfect for the work environment in open-plan offices, the Busylight makes users feel comfortable with Lync's features and eases the transition from traditional office internal telephone systems.	Order Code: S26391-F7139-L30

#### 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.

### More information

#### Fujitsu OPTIMIZATION Services

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.

#### 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/services/computing/

#### Software

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. 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/global/about/environment



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