

Fujitsu recommends Windows® 7.

Data Sheet

Fujitsu ESPRIMO E500 E85+ Desktop PC

Your Flexible Economy PC

Fujitsu All-round ESPRIMO PCs deliver high-quality computing for your office applications and projects at a very attractive price point. You can choose cost-optimized fixed configurations for immediate delivery. Alternatively, you can use configuration options to meet your specific hardware needs, while staying within your budget.

Intelligent performance and best price/performance ratio

Cost-effective system for large enterprise projects

- 2nd generation Intel® Core™ processors with Turbo Boost 2.0 and Hyper-Threading technology

Flexibility

Freedom of choice with tailored systems, perfect fit for specific requirements

- Flexible logistics concept - Customizing program (made4you)

Reliability

Excellent quality and functional stability

- Proprietary development and production in Europe

Lifecycle

Hardware continuity for long-lasting project requirements

- Managed lifecycle up to 12 months

Meets ENERGY STAR® requirements

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

- Up to 86% energy efficient power supply



Components

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, 3.30 GHz, 3 MB, Intel® HD Graphics 2000)
	Intel® Core™ i3-2100 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 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	
Operating system	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
Operating system compatible	openSUSE Linux
	Genuine Windows Vista®
	Genuine Windows® XP
Operating system notes	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via http://support.ts.fujitsu.com
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, 256 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
	HDD SATA III, 7200 rpm, 320 GB, 3.5-inch
	HDD SATA II, 7200 rpm, 160 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 LP, 512 MB
	NVIDIA® GeForce® GT 420
	NVIDIA® GeForce® 405 display port low profile, 512 MB
	LFH59/ 2x DVI-I adapter cable
	LFH59/ 2x DP adapter cable
	DP to DVI-D (single link) Adapter Cable
Drives (optional)	
	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
(optional)**

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 E500 E85+

Mainboard

Mainboard type D2991
Formfactor µATX
Chipset Intel® B65
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 Realtek RTL 8111E

BIOS version AMI Aptio 4.6

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

Audio codec Realtek ALC663

Audio features High Definition Audio, 5.1 surround sound

I/O controller on board

Serial ATA total 4
thereof SATA III 1
thereof eSATA 1 (optional)

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 optional
USB front 2
USB rear 6
USB internal 2
VGA 1
DVI 1 (DVI-D)
Serial (RS-232) 1 (9pin, 16 byte FIFO, 16550 compatible)

Interfaces

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

Input devices (optional)	Optical USB wheel mouse Optical USB/PS2 tilt wheel mouse KBPC PX ECO Mouse M440 ECO
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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	optional external bay as internal 3,5"

Slots

PCI-Express 2.0 x16	1 x (200 mm) Low profile
PCI-Express x1	2 x (174 mm) Low profile
PCI (32-bit / 33 MHz)	1 x (174 mm) Low profile

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
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

Electrical values

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=ab648c08-c3d1-4e6e-8c41-ededc1e8fab8

Heat dissipation

Heat dissipation notes	See white paper Energy Consumption
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Noise for standard configuration (HDD, ODD)

Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™ i5 2400
Noise Operation mode 1: ODD load (Blue angel requirement)	4.1 B/ 26 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.7 B/ 23 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	4.4 B/ 29 dB(A)
Noise Operation mode 4: High load	4.4 B/ 30 dB(A)
Noise Operation mode 5: Office applications 2.0	3.7 B/ 22 dB(A)
Idle mode (Blue Angel requirement)	3.7 / 22 dB(A)
Noise notes / description	A weighted sound power level L _{wad} (in B) / workplace related A-weighted sound pressure level L _{pAm} (in dB(A)), Bystander position

Dimensions / Weight / Environmental

Dimensions (W x D x H)	340 x 382 x 98 mm
Operating position	Vertical / horizontal (optional, feet needed)
Weight	approx. 10 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35°C

Compliance

Product	ESPRIMO E500
Model	DT8-2991
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.
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Additional 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)
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Miscellaneous

Thermal management

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)
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DeskView components	WoL (Wake on LAN)
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Manageability link	http://ts.fujitsu.com/manageability http://www.altiris.com/fujitsu
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Security

System protection	Kensington Lock support Eye for padlock
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Audit proof protection	Boot sector virus protection Write protect option for the Flash EPROM Control of external interfaces
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Access protection	User and supervisor BIOS password Hard disk password Optional: Access protection via external SmartCard reader Optional: Access protection via internal SmartCard reader
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ServiceabilityEasyFix
EasyChange for HDD
EasyChange for optical drives**Packaging information**

Packaging dimension	467x265x540 mm
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Max. quantity / pallet	28
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Material - Weight (g) Carton	1140 g
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Material - Weight (g) EPS / PS	180 g
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Material - Weight (g) PE	appr. 60 g
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Packaging notes	printed user documentation is bleached in chlorine free process
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Warranty

Standard Warranty	1 year
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Service level	Bring-In / On-Site Service (depending on country)
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Maintenance and Support Services - the perfect extension

Recommended Service	5x9, Response Time: Next Business Day
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Spare Parts availability	5 years
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Service Weblink	http://ts.fujitsu.com/Supportservice
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More information

Fujitsu platform solutions

In addition to Fujitsu ESPRIMO E500 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 E500 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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