

Fujitsu recommends Windows® 7.

Data Sheet

Fujitsu ESPRIMO P900 E90+ Desktop PC

The Expandable Business Workhorse

Fujitsu ESPRIMO E/P900 PCs give you the absolute highest PC manageability, performance and expandability. The optional 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.

Microtower

Maximum performance and optimal expandability

- High-quality, high-value microtower, 7 drive bays, 4 PCI/PCI express interfaces

Environmentally conscious product with ENERGY STAR® certification

Your contribution to environmental protection for the continued existence of our planet

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

Highest energy efficiency coupled with intelligent performance

Low power consumption combined with top performance

- 2nd generation Intel® Core™ processors with Turbo Boost 2.0 and Hyper-Threading technology, a switched monitor outlet and a power supply with up to 92% efficiency

System management

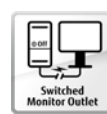
Simple system administration for complex IT infrastructures

- Intel® vPro™ technology (depending on processor)

Quiet

Pleasant working environment due to an extremely quiet system

- Innovative hardware design, optimized cooling concept



Components

Processor	Intel® vPro™ Logo with Intel® Core i5-2400, Intel® Core™ i5-2500 and Intel® Core™ i7-2600 processors. 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 Citrix XenClient™ 2
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, business critical 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, 1000 GB, 3.5-inch, S.M.A.R.T. 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, 512 MB NVIDIA® GeForce® GT 420 NVIDIA® GeForce® 405 display port full height LFH59/ 2x DVI-I adapter cable LFH59/ 2x DP adapter cable DP to DVI-D (single link) Adapter Cable ATI Radeon® HD 5450, 512 MB 2nd NVIDIA® Quadro® NVS 300, 512 MB
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 P900 E90+

Mainboard

Mainboard type D3062
Formfactor µATX
Chipset Intel® Q67
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 Intel® 82579 LM

BIOS version AMI Aptio 4.6

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

Audio codec Conexant CX20642

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 2
thereof eSATA 2 (optional)

Controller functions Serial ATA II (3 Gbit)
 Serial ATA III (6 Gbit)
 NCQ
 AHCI
 Raid 1/0

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 14
USB 3.0 total optional
USB front 4
USB rear 8
USB internal 2
VGA 1 (via DVI to VGA adapter, part of shipment)
DisplayPort 1

Interfaces

DVI	1 (DVI-I)
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 tilt wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse KBPC PX ECO Mouse M440 ECO

Drive bays

Drive bays total	7
2.5-inch internal bays	1
3.5-inch internal bays	2
3.5-inch external bays	2
5.25-inch external bays	2

Slots

PCI-Express 2.0 x16	1 x (312 mm) Full height
PCI-Express 2.0 x4 (mech. x16)	1 x (312 mm) Full height
PCI-Express x1	1 x (312 mm) Full height
PCI (32-bit / 33 MHz)	1 x (170 mm) Full height

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
TFT resolution (DisplayPort)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel 2560 x 1440 pixel 2560 x 1600 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 on board

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
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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=97001b4f-3df1-4981-8d8a-e863472c4769

Heat dissipation

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

Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™ i5 2400
Noise Operation mode 1: ODD load (Blue angel requirement)	4.0 B/ 26 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.5 B/ 20 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.5 B/ 20 dB(A)
Noise Operation mode 4: High load	3.6 B/ 21 dB(A)
Noise Operation mode 5: Office applications 2.0	3.4 B/ 19 dB(A)
Idle mode (Blue Angel requirement)	3.4 B/ 19 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)	175 x 419 x 395 mm
Operating position	Vertical
Weight	approx. 11 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35°C

Compliance

Product	ESPRIMO P900
Model	M15W-3062
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

Compliance link	https://sp.ts.fujitsu.com/sites/certificates/
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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 (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink Power2Go 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

Keyboard on (Special Fujitsu keyboard required) Thermal management Extended lifetime
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Compatibility (references)

DMI 2.0 PC 2001 WMI 1.5 USB 2.0 SMBIOS
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Manageability

Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) iAMT 7.0
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Manageability software	DeskView 10.x client management including:
DeskView components	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)

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 Optional: Integrated cabinet lock
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Audit proof protection	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
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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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Serviceability

EasyFix
 EasyChange for HDD
 EasyChange for optical drives

Packaging information

Packaging dimension 516x278x562 mm
Max. quantity / pallet 24
Material - Weight (g) Carton 1405 g
Material - Weight (g) EPS / PS 160 g
Material - Weight (g) PE appr. 60 g
Packaging notes printed user documentation is bleached in chlorine free process

Warranty

Standard Warranty 3 years
Service level Bring-In / On-Site Service (depending on country)

Maintenance and Support Services - the perfect extension

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



More information

Fujitsu platform solutions

In addition to Fujitsu ESPRIMO P900 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/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu ESPRIMO P900 E90+, 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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