

Fujitsu recommends Windows® 7.

Data Sheet

Fujitsu ESPRIMO P705 E85+ Desktop PC

The Expandable Business Workhorse

The Fujitsu ESPRIMO P705 E85+ is equipped with the latest AMD technology and offers extraordinary performance. With the powerful processor from AMD this system reaches new performance levels enabling fast and easy handling of challenging tasks. The Fujitsu ESPRIMO 705 E85+ offers optimal expandability due to its microtower design. The PC is equipped with an 86% energy efficient power supply which reduces your power consumption and keeping costs to a minimum.

Microtower

Maximum performance and optimal expandability

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

Power-saving and awarded ENERGY STAR® certificate

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

- Sophisticated technology, low energy-consuming processors, up to 86% efficient power supply and enhanced power management settings

Environmental product

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

Quiet

Pleasant working environment due to an extremely quiet system

- Innovative hardware design, optimized cooling concept

Serviceability

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

- Easy access to all replaceable and expandable components



Components

Processor	AMD Athlon™ FX 4100 (4 Cores, 3.6 GHz, 8 MB) AMD Phenom™ II X4 960T (4 Cores, 3.0 GHz, 8 MB) AMD Phenom™ II X2 560 (2 Cores, 3.3 GHz, 7 MB) AMD Athlon™ II X2 265 (2 Cores, 3.3 GHz, 2 MB) AMD Athlon™ II X2 220 (2 Cores, 2.8 GHz, 1 MB)
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, 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, 160 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 P705 E85+
Mainboard	
Mainboard type	D3091
Formfactor	µATX
Chipset	AMD 880G
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 Broadcom BCM57780
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	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound
I/O controller on board	
Serial ATA total	6
thereof eSATA	1 (optional)
Controller functions	Serial ATA II NCQ and 3 GBit 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	12
USB 3.0 total	optional
USB front	4
USB rear	6
USB internal	2
VGA	1 (via DVI to VGA adapter, part of shipment)
DisplayPort	1
DVI	1 (Dual link 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	
Input devices (optional)	Optical USB tilt wheel mouse 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 (180 mm) Full height
PCI-Express 2.0 x4 (mech. x16)	1 x (180 mm) Full height
PCI-Express x1	1 x (85 mm) Full height
PCI (32-bit / 33 MHz)	1 x (180 mm) Full height

Graphics on board

Graphics brand name ATI Radeon® HD 4250

Shared video memory up to 2811 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
 2560 x 1440 pixel
 2560 x 1600 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® 2.0
 For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows 7® only)

Graphics notes
 up to 512 MB 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) : 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

Operating line frequency range 47 Hz - 63 Hz

Electrical values

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=82c20b70-e4d5-4c1e-8a03-af8a4a527a2a

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	AMD® Phenom™ II X4 960T
Noise Operation mode 1: ODD load (Blue angel requirement)	4.5 B/ 30 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.7 B/ 22 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	4.4 B/ 30 dB(A)
Noise Operation mode 4: High load	4.5 B/ 30 dB(A)
Noise Operation mode 5: Office applications	tbd
Noise Operation mode 5: Office applications 2.0	3.7 B/ 21 dB(A)
Idle mode (Blue Angel requirement)	3.7 B/ 21 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 P705
Model	M15W-D3091
Germany	TÜV GS
Europe	CE Nordic Swan in progress
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 (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) Optional: CyberLink Power DVD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive)
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Miscellaneous

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

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) Intrusion switch (optional) DASH 1.1 Support (optional)
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Manageability software	DeskView 10.x client management including:
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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)
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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 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	1 year
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 P705 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 P705 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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2011-12-20 CE-EN

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