Fujitsu recommends Windows 8 Pro.



Data Sheet Fujitsu ESPRIMO P420 E85+ Desktop PC

Your Immediately Deliverable Office PC

The FUJITSU PC ESPRIMO P420 delivers 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.

High performance and best price/performance ratio

Cost-effective system for price-conscious customers

■ 4th generation Intel® Core™ processor family

Flexibility

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

■ Flexible logistic concept - optional customizing program

Reliability

High-quality and functional stability

■ Development and production in Europe

Lifecycle

Hardware continuity for long-term projects

■ Managed lifecycle up to 12 months

Meets ENERGY STAR® requirements

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

■ Power supply with 85% efficiency





Components

Processor	Intel® Core™ i7-4770 processor (4 Cores / 8 Threads, 3.40 GHz, up to 3.9 GHz, 8 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i5-4670 processor (4 Cores / 4 Threads, 3.40 GHz, up to 3.8 GHz, 6 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i5-4570 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i5-4440 processor (4 Cores / 4 Threads, 3.10 GHz, up to 3.3 GHz, 6 MB, Intel® HD Graphics 4600)
	Intel® Core™ i3-4130 processor (2 Cores / 4 Threads, 3.40 GHz, 3 MB, Intel® HD Graphics 4400)
	Intel® Pentium® processor G3420 (2 Cores / 2 Threads, 3.20 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G3220 (2 Cores / 2 Threads, 3.00 GHz, 3 MB, Intel® HD Graphics)
	*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other
	variables)
perating systems	
perating system	Windows 8.1 Pro
3-7	Windows 8.1
	Windows® 7 Professional 64-bit
	Windows® 7 Professional 32-bit
perating system compatible	openSUSE Linux
Nemory modules	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1600 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)
	SED (Self-Encrypting Drive)
lard 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, 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
	HDD SATA III, 7,200 rpm, 250 GB, 3.5-inch
	HDD SATA II, 5,400 rpm, 320 GB, 2.5-inch
Graphics	NVIDIA® GeForce® GT630 DisplayPort 2GB FH, 2 GB NVIDIA® GeForce® 605 DisplayPort 1GB FH, 1 GB
	DP to DVI-D (single link) Adapter Cable
	ATI Radeon® HD7350 1GB FH, 1 GB
	AMD® Radeon R9 255 FH, 2 GB
Drives (optional)	BD Triple Writer SATA slim (tray)
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 24in1 USB 2.0 3.5"
nterface add on cards/components optional)	
	WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only, not for Indonesia)
	WLAN 802.11 abgn (2x2), (dedicated regions only, not for Indonesia)
	USB 3.0 PCIe x1
	Gigabit Ethernet PCle x1, DS

Mainboard type D3230 ESPRIMO P420 E85+ D3230	
Mailiboald type D3230	
Formfactor UATX	
- '	
Processor socket LGA 1150	
Processor quantity maximum 1	
Memory slots 2 DIMM (DDR3)	
Supported capacity RAM (max.) 16 GB	
Memory frequency 1,600 MHz	
Memory notesDual channel support.For dual channel performance, identical memory modules in each channel are necessary (minimum 2 in the contract of	modulos)
LAN 10/100/1,000 MBit/s Realtek RTL8111G	nodules).
BIOS version AMI Aptio 4.6	
BIOS features BIOS Flash EPROM update by software	
Recovery BIOS	
Unified Extensible Firmware Interface (UEFI)	
Audio codec Realtek ALC671	
Audio features High Definition Audio, 5.1 surround sound	
I/O controller on board	
Serial ATA total 3	
thereof SATA III 2	
Controller functions Serial ATA II (3 Gbit)	
Serial ATA III (6 Gbit) NCQ	
AHCI	
Interfaces	
Audio: line-in 1	
Audio: line-out 1	
Front audio: microphone 1	
Front audio: headphone 1	
USB 2.0 total 6	
USB 3.0 total 2	
USB front 2x 2.0	
USB rear 2x 2.0/ 2x 3.0	
USB internal 2x 2.0	
VGA 1	
DVI 1 (DVI-D)	
Mouse / Keyboard (PS/2) 1/1	
Ethernet (RJ-45) 1	
Input device / components Optical USP wheel mouse	
Optical USB wheel mouse	
Input devices (optional) Optical USB/PS2 tilt wheel mouse KBPC PX ECO	
Mouse M440 ECO	
Mouse M440 ECO Drive bays	
Mouse M440 ECO Drive bays Drive bays total 5	
Mouse M440 ECO Drive bays Drive bays total 5 3.5-inch internal bays 2	
Drive bays Drive bays total 5 3.5-inch internal bays 2 3.5-inch external bays 1	
Mouse M440 ECO Drive bays Drive bays total 5 3.5-inch internal bays 2	

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Clare	
Slots	1 / 210 mm / 0 27 inch) Full hairbh
PCI-Express 3.0 x16 PCI-Express x1	1 x (210 mm / 8.27 inch) Full height 2 x (190 mm / 7.48 inch) Full height
·	2 X (190 IIIII / 7.46 IIICI) Full Height
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
	1,300 x 700 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 x 1,050 pixel
	1,920 x 1,030 pixel
	1,920 x 1,200 pixel
Graphics features	Dual display support
·	DirectX® 11.1
	HDCP support
	Open GL® 3.3
	Open CL® 1.2
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) : 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
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=6b73d957-8d8b-4bb1-99e5-5842c38805f8
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 notes / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
	Bystander position

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Noise emission	
Standard noise operation mode: CPU 50% load	3.4 B / 21 dB(A) Bystander; 25 dB(A) Operator position
Standard noise operation mode: HDD load	3.4 B / 21 dB(A) Bystander; 26 dB(A) Operator position
Standard noise operation mode: Idle mode	3.4 B / 20 dB(A) Bystander; 26 dB(A) Operator position
Standard noise operation mode: ODD load	4.6 B / 32 dB(A) Bystander; 38 dB(A) Operator position
Standard noise operation mode: Office applications 2.0	3.4 B / 20 dB(A) Bystander; 26 dB(A) Operator position
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	175 x 425 x 353 mm
	6.89 x 16.74 x 13.9 inch
Operating position	Vertical
Weight	9 kg
Weight (lbs)	20.22 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35 °C (50 - 95 °F)
Compliance	
Product	ESPRIMO P420
Model	MI4W
Germany	TÜV GS
Europe	CE
Global	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 (dedicated regions) EPEAT® Gold (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
Miscellaneous	
Compatibility (references)	
companity (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) WoL (Wake on LAN)

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Security	
Physical Security	Kensington Lock support
	Eye for padlock
System and BIOS Security	Boot sector virus protection
	Write protect option for the Flash EPROM
	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)
Packaging information	
Packaging dimension (mm)	500 x 290 x 540 mm
Packaging dimension (inch)	19.69 x 11.42 x 21.26 inch
Max. quantity / pallet	24
Material - Weight (g) Carton	1270 g
Material - Weight (lbs) Carton	2.8 lbs
Material - Weight (g) EPS / PS	160 g
Material - Weight (lbs) EPS / PS	0.35 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	
Standard Warranty	1 year
Service level	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local
	regulations, minimum: 1 year material warranty)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Maintenance and Support Services -	
Recommended Service	9x5, 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

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

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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 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.

S26381-K341-L1** (**:

Keyboard KB900



The KB900 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB900 the ideal input device for any PC or Notebook user. If you accidently spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.

S26381-K560-L4** (**: Country specific variation)

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More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu ESPRIMO P420 E85+, 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 P420 E85+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

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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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