

ESPRIMO P3510

Your flexible economic PC

Issue: January 2009

Fujitsu Siemens Computers is the leading European IT manufacturer. With a strategic focus on innovative mobility and the dynamic data center, we offer a unique range of products and services from notebooks and desktops to servers and IT infrastructure solutions. Famous German engineering and exceptional in-house quality testing capabilities in our test centers ensure extraordinary product quality and reliability across all product lines.

ESPRIMO P3510

The ESPRIMO P3510 is the right choice for major customers requiring the latest standard features. This Microtower PC is the ultimate balance between top performance and very attractive prices. Freely configurable, with proven technology and an extended maximum 12-month lifecycle, this PC is the perfect choice for cost-driven projects.

Best price/performance ratio

Cost-effective systems for price-driven project requirements in large accounts

- Entry-level professional PCs with standard technology

Flexibility

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

- Flexible logistic concept - customizing program (made4you)

Reliability

Excellent quality and functional stability

- In-house development and manufacturing

Lifecycle

Hardware continuity for long lasting project needs

- Product lifecycle of up to 12 months

Technology

High-performance and reliable partner for your daily business

- Intel® G31 chipset with Intel® Core™2 Quad and Intel® Core™2 Duo processor support



Components

Processor	Intel® Core™2 Quad Q6600 (2.4 GHz, 8 MB, 1066 MHz) Intel® Core™2 Duo E8600 (3.33 GHz, 6 MB, 1333 MHz) Intel® Core™2 Duo E8500 (3.16 GHz, 6 MB, 1333 MHz) Intel® Core™2 Duo E8400 (3.0 GHz, 6 MB, 1333 MHz) Intel® Core™2 Duo E7500 (2.93 GHz, 3 MB, 1066 MHz) Intel® Core™2 Duo E7400 (2.8 GHz, 3 MB, 1066 MHz) Intel® Core™2 Duo E7300 (2.66 GHz, 3 MB, 1066 MHz) Intel® Core™2 Duo E7200 (2.53 GHz, 3 MB, 1066 MHz) Intel® Pentium® Dual-Core E5400 (2.70 GHz, 2 MB, 800 MHz) Intel® Pentium® Dual-Core E5300 (2.6 GHz, 2 MB, 800 MHz) Intel® Pentium® Dual-Core E5200 (2.5 GHz, 2 MB, 800 MHz) Intel® Pentium® Dual-Core E2220 (2.4 GHz, 1 MB, 800 MHz) Intel® Pentium® Dual-Core E2200 (2.2 GHz, 1 MB, 800 MHz) Intel® Celeron® Dual-Core E1200 (1.6 GHz, 512 KB, 800 MHz) Intel® Celeron® 450 (2.2 GHz, 512 KB, 800 MHz)
Memory modules	2 GB (1 module(s) with 2 GB, DDR2), 800 MHz 1 GB (1 module(s) with 1 GB, DDR2), 800 MHz 1 GB (1 module(s) with 1 GB, DDR2), 667 MHz
Hard disk drives (internal)	SATA II, 7200 rpm, 500 GB, 3.5-inch S.M.A.R.T. SATA II, 7200 rpm, 250 GB, 3.5-inch SATA II, 7200 rpm, 160 GB, 3.5-inch SATA II, 7200 rpm, 80 GB, 3.5-inch
Hard disk notes	Supporting NCQ and 3 GBit (if chipset support is available)
Graphics add on cards (optional)	ATI Radeon® HD 3450 256 MB DVI Adapter NVIDIA® GeForce® 9300GE 256 MB NVIDIA® GeForce® 9300GE 512 MB NVIDIA® Quadro NVS 290 256 MB
Modular bay options	1.44 MB Floppy Blu-ray Disc Triple Writer DVD-ROM DVD Super Multi MultiCard Reader 15in1, 3,5-Inch
Interface add on cards/components (optional)	WLAN II, 802.11g, 54Mbps Modem adapter kit (EU) Modem 56k incl. RJ11 modem cable FireWire PCI-Card IEEE1394 Dual serial card, PCI, EX-43092
Base unit	ESPRIMO P3510
Mainboard	
Mainboard type	D2750
Formfactor	µBTX
Chipset	Intel® G31
Processor socket	LGA 775
Processor quantity maximum	1
System bus (FSB / HT / QPI)	up to 1333 MHz
Memory slots	2 DIMM (DDR2)
Supported capacity RAM (max.)	8 GB
Memory frequency	800 MHz
Memory notes	With future modules. Dual channel support. For dual channel performance, 2 memory modules have to be ordered. Capacity per channel has to be the same.
LAN	10/100/1000 MBit/s Realtek RTL8111C
BIOS version	Phoenix 6.0
BIOS features	BIOS Flash EPROM update by software Recovery BIOS
Audio codec	Realtek ALC262
Audio features	High Definition audio
I/O controller on board	
Serial ATA total	4
Controller functions	Serial ATA II 3 GBit
Interfaces	
Audio: line-in / microphone	1
Audio: line-in	1
Audio: line-out	1
Front audio: headphone	1

Interfaces	
Front audio: microphone	1
USB 2.0 total	8
USB front	2
USB rear	4
USB internal	2, optional rear
VGA	1
DVI	optional
Serial (RS-232)	1 (9pi, 16 byte FIFO, 16550 compatible)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	optional (25pin with EPP and ECP)

Input device / components	
	Optical USB tilt wheel mouse
	Optional: Optical USB/PS2 tilt wheel mouse

Drive bays	
Drive bays total	4
3.5-inch internal bays	1
3.5-inch external bays	1
5.25-inch external bays	2

Slots	
PCI-Express x16	1 x (230 mm) full height
PCI (32-bit / 33 MHz)	2 x (230 / 312 mm) full height

Graphic on board	
Graphics brand name	Intel® GMA 3100
Shared video memory	Up to 256 MB
Refresh rate 1024 x 768 (recommended / max.)	85 Hz / -
Refresh rate 1280 x 1024 (recommended / max.)	85 Hz / -
Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / -
TFT resolution (VGA)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
Graphic notes	Shared memory depending on driver Resolution (color depth up to 32 Bit/pixel) Refresh rates reflect the max. graphics capabilities. Video quality can be deteriorated when using maximum settings. For TFT we recommend to use 60Hz.

Electrical values	
Rated voltage range	100 - 127 V / 200 - 240 V
Rated frequency range	50 - 60 Hz
Operating voltage range	90 - 137 V / 180 - 264 V
Operating line frequency range	47 - 63 Hz
Max. output of power supply	300 W
Power factor correction/active power	passive
Monitor outlet	No

Power consumption	
Power consumption note	see white paper Energy Consumption
Link to Energy White Paper	http://docs.fujitsu-siemens.com/dl.aspx?id=d278261e-9d71-483d-96de-31c536b9419a

Heat dissipation	
Heat dissipation notes	see white paper Energy Consumption

Noise for standard configuration (HDD, ODD, FDD)	
Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™2 Duo E8500
Noise Operation mode 1: ODD load (Blue angel requirement)	5,0 B / 36 dB
Noise Operation mode 2: HDD load (Blue angel requirement)	4,3 B / 28 dB
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	4,3 B / 28 dB
Noise Operation mode 4: High load	4,4 B / 29 dB
Noise Operation mode 5: Office applications	4,3 B / 28 dB
Idle mode (Blue Angel requirement)	4,1 B / 26 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

Dimension (W x D x H)	203 x 390 x 392 mm
Operating position	Vertical
Weight	approx. 12 kg
Weight notes	Weight may vary depending on actual configuration.
Operating ambient temperature	15 - 35°C

Compliance

Germany	GS
Europe	CE
USA/Canada	FCC Class B
	UL
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL)
Compliance link	https://sp.fujitsu-siemens.com/sites/certificates/default.aspx

Operating system

Operating system optional preinstalled	Microsoft® Windows Vista® Home Basic Microsoft® Windows Vista® Home Premium Microsoft® Windows Vista® Business 32bit TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Linux

Additional Software

Additional software (preinstalled)	Nero Essentials (burning software)
Additional software (optional)	Recovery DVD (Windows® XP / Windows Vista®) Drivers & Utilities DVD (DUDVD) Windows Vista®
Additional software (included as a CD/DVD)	Drivers & Utilities DVD (DUDVD) Windows® XP

Compatibility (references)

DMI 2.0
PC 2001
WMI 1.5
USB 2.0

Manageability

Manageability features	DeskView Migrate (optional) DeskView Control (optional) PXE 2.1 Boot code Wake up from S5 (off mode)
DeskView features	WoL (Wake on LAN)
Manageability link	http://www.fujitsu-siemens.com/manageability http://www.altiris.com/fsc

Security

Physical security	Kensington Lock support Eye for padlock
System security	Boot sector virus protection Control of external interfaces Boot protection for floppy disk / CD drive and write protection for floppy disk drive
User security	User and supervisor BIOS password Optional: Access protection via external SmartCard reader

Packaging information

Packaging dimension	500x290x540 mm
Max. quantity / pallet	24
Material - Weight (g) Carton	1270 g
Material - Weight (g) EPS / PS	210 g
Material - Weight (g) PE	appr. 60 g
Packaging notes	printed user documentation is bleached in chlorine free process

Warranty**Maintenance and Support Services - the perfect extension**

Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	www.fujitsu-siemens.com/Supportservice

Information about environmental care, policies, programs and our Environmental Guideline FSC

03230:

<http://www.fujitsu-siemens.com/aboutus>

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