

# DATA SHEET

## ESPRIMO P3510

Your flexible economic PC

Issue: September 2009

### 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

<b>Processor</b>	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 E7600 (3.06 GHz, 3 MB , 1066 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® Pentium® E6300 (2.8 GHz, 2 MB , 1066 MHz )
	Intel® Pentium® E5400 (2.7 GHz, 2 MB , 800 MHz )
	Intel® Pentium® E5300 (2.6 GHz, 2 MB , 800 MHz )
	Intel® Pentium® E5200 (2.5 GHz, 2 MB , 800 MHz )
	Intel® Celeron® 450 (2.2 GHz, 512 KB , 800 MHz )
<b>Memory modules</b>	2 GB (1 module(s) with 2 GB) DDR2, 800 MHz, PC2-6400, DIMM
	1 GB (1 module(s) with 1 GB) DDR2, 800 MHz, PC2-6400, DIMM
<b>Hard disk drives (internal)</b>	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
Hard disk notes	Supporting NCQ and 3 GBit (if chipset support is available)
<b>Graphics add on cards (optional)</b>	ATI Radeon® HD 3450 256 MB
	DVI Adapter
	NVIDIA® GeForce® 9300GE 256 MB
	NVIDIA® GeForce® 9300GE 512 MB
	NVIDIA® Quadro NVS 290 256 MB
<b>Modular bay options</b>	1.44 MB Floppy
	Blu-ray Disc Triple Writer
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 15in1, 3,5-Inch
<b>Interface add on cards/components (optional)</b>	WLAN III, 802.11g/Draft-n (Windows only)
	WLAN II, 802.11g, 54Mbps (Windows only)
	Parallel Interface
	Modem adapter kit (EU)
	Modem 56k incl. RJ11 modem cable
	FireWire PCI-Card IEEE1394
	Dual serial card, PCI, EX-43092
<b>Base unit</b>	<b>ESPRIMO P3510</b>
<b>Mainboard</b>	
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.)	4 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
BIOS version	Phoenix 6.0

## Mainboard

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

## 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
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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.
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## 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	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=d278261e-9d71-483d-96de-31c536b9419a">http://docs.ts.fujitsu.com/dl.aspx?id=d278261e-9d71-483d-96de-31c536b9419a</a>

## 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™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 <sub>wad</sub> (in B) / workplace related A-weighted sound pressure level L <sub>pAm</sub> (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**

Product	ESPRIMO E3510
Model	MI3W-D2750
Germany	GS
Europe	CE
USA/Canada	FCC Class B cCSAus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL)

**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
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**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	<a href="http://ts.fujitsu.com/manageability">http://ts.fujitsu.com/manageability</a> <a href="http://www.altiris.com/fsc">http://www.altiris.com/fsc</a>

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## 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

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## 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

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## Warranty

### Maintenance and Support Services - the perfect extension

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

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