Windows®. Life without Walls™. Fujitsu recommends Windows 7.



Data Sheet

Fujitsu ESPRIMO E3521 E-Star 5.0 Desktop PC

Your flexible economy PC

The ESPRIMO E3521 E-Star5 is the right choice for major customers requiring the latest standard technology. This Small Form Factor PC, less than 13 litres in volume, combines top performance and extremely attractive prices. Equipped with a power supply unit with up to 87% efficiency and selected components it complies with the ENERGY STAR® standard, thus saving energy and protecting the environment. Freely configurable, with proven technology and an extended product lifecycle of 12 months, this PC is the perfect choice for cost-driven projects.



Excellent price / performance ratio

Cost-effective system for major customer projects

■ Entry-level PC 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

■ Proprietary development and production in Europe

Lifecycle

Hardware continuity for long lasting project needs

■ Managed lifecycle up to 12 months

Meets ENERGY STAR® and Blauer Engel requirements

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

■ Effective power supply of maximum 87%













Components

Processor	Intel® Core™2 Quad processor Q9550 (4 Cores / 4 Threads, 2.83 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9505 (4 Cores / 4 Threads, 2.83 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q8300 (4 Cores / 4 Threads, 2.5 GHz, 4 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8600 (2 Cores / 2 Threads, 3.33 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8500 (2 Cores / 2 Threads, 3.16 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8400 (2 Cores / 2 Threads, 3.0 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E7600 (2 Cores / 2 Threads, 3.06 GHz, 3 MB, 1066 MHz)
	Intel® Core™2 Duo processor E7500 (2 Cores / 2 Threads, 2.93 GHz, 3 MB, 1066 MHz)
	Intel® Pentium® processor E6600 (2 Cores / 2 Threads, 3.06 GHz, 2 MB, 1066 MHz)
	Intel® Pentium® processor E5800 (2 Cores / 2 Threads, 3.2 GHz, 2 MB, 800 MHz)
	Intel® Celeron® processor E3400 (2 Cores / 2 Threads, 2.6 GHz, 1 MB, 800 MHz)
Operating system	
Operating system	Genuine Windows® 7 Starter (EM) 32-bit
. , ,	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	Buy Microsoft® Office 2010 to use the full-featured Office software on this PC.
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	1 GB (1 module(s) 1 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM
nemory modules	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM
Hard disk drives (internal)	SSD SATA, 128 GB, 2.5-inch
add disk drives (internal)	
	SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T. SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 320 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.
Hard disk notes	Supporting NCQ and 3 GBit
	11 3
Graphics add on cards (optional)	NVIDIA® Quadro® NVS 290 low profile, 256 MB
	NVIDIA® GeForce® GT 420
	NVIDIA® GeForce® 405 display port low profile, 512 MB
	DP to DVI-D (single link) Adapter Cable
Orives (optional)	1.44 MB Floppy
	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
nterface add on cards/components (optional)	
	USB 3.0 PCle x1
	Parallel Interface

Mainboard	
Mainboard type	D3041
Formfactor	ATX
Chipset	Intel® G41
Processor socket	LGA 775
Processor quantity maximum	1
System bus (FSB / HT / QPI)	up to 1333 MHz
Memory slots	2 DIMM (DDR3)
Supported capacity RAM (max.)	8 GB
Memory frequency	1066 MHz
Memory notes	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 RTL8111DL
BIOS version	Phoenix 6.0
BIOS features	BIOS Flash EPROM update by software Recovery BIOS
Audio codec	Realtek ALC663
Audio features	High Definition audio, 5.1 surround sound
I/O controller on board	-
Serial ATA total	4
thereof eSATA	0
Controller functions	Serial ATA II
Controller functions	3 GBit
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	8
USB front	2
USB rear	4
USB internal	2
VGA	1
DisplayPort	1 (optional)
DVI	1 (optional)
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)
Interface Module notes	Anytime USB charge functionality
Input device / components	O-riveluich veles vers
Insulation I at the Insula	Optical USB wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse
Drive bays	
Drive bays total	3
3.5-inch internal bays	1
3.5-inch external bays	1
5.25-inch external bays	1
Drive bay notes	optional external bay as internal 3,5"
Slots	
PCI-Express x16	1 x (210 mm) Low profile

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Slots	
PCI-Express x1	1 x (210 mm) Low profile
PCI (32-bit / 33 MHz)	2 x (170/ 190 mm) Low profile
Graphics on board	
Graphics brand name	Intel® GMA 4500
Shared video memory	up to 1759 MB
Refresh rate 1024 x 768 (recommended	· ·
/ max.)	
Refresh rate 1280 x 1024	85 Hz / -
(recommended / max.)	
Refresh rate 1600 x 1200	85 Hz / -
(recommended / max.)	
TFT resolution (VGA)	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 (DVI)	1360 x 768 pixel
Tricsolution (DVI)	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 (optional with DVI/DP extension adapter)
	DirectX 10
	HDCP support
	OpenGL® 2.0
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
Flastelan Lynnig -	
Electrical values	2004015 CURD N officion (1 2201/2201/2007 2007 2007 2007 2007 2007 2007
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 86% / 88% / 85%) 0-Watt mode with hard-off switch
Pated voltage range	U-watt mode with nard-off switch 100 V - 240 V
Rated voltage range	
Rated frequency range Operating voltage range	50 Hz - 60 Hz 90 V - 264 V
Operating voltage range Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	47 HZ - 03 HZ 250 W
Power factor correction/active power	active
Monitor outlet	No No
Power consumption	
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=b0ce6669-1ef6-4d5b-8e4d-d7064dbd3f26
	nttp://docs.ts.lujitsu.toiii/di.aspx:10=b0te0003=1e10-403b-0e40-0/0040b03120
Heat dissipation	Consulting and a Consultation of the Consultat
Heat dissipation notes	See white paper Energy Consumption

Noise for standard configuration (HDD,	
Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™2 Duo E8600
Noise Operation mode 1: ODD load (Blue angel requirement)	4.4 B / 29 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	4.1 B / 26 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	4.0 B / 25 dB(A)
Noise Operation mode 4: High load	4.1 B / 26 dB(A)
Noise Operation mode 5: Office applications	4.1 B / 26 dB(A)
Idle mode (Blue Angel requirement)	4.0 B / 24 dB(A)
Noise notes / description	A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	330 x 405 x 104 mm
Operating position	Vertical / horizontal (optional, feet needed)
Weight	approx. 10 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35℃
Compliance	
Product	ESPRIMO E3521
Model	DTL1-3041
Germany	Blauer Engel / Blue Angel GS
Europe	CE
USA/Canada	FCC Class B CSA
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 EPEAT® Silver (dedicated regions)
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx
Additional Software	
Additional software (preinstalled)	Nero Essentials S (burning software)
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD 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) Nero 9 Essentials XL
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)
DeskView components	WoL (Wake on LAN)

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Manageability		
Manageability link	http://ts.fujitsu.com/manageability	
	http://www.altiris.com/fujitsu	
Security		
System protection	Kensington Lock support	
	Eye for padlock	
Audit proof protection	Boot sector virus protection	
	Write protect option for the Flash EPROM	
	Boot protection for floppy disk / CD drive and write protection for floppy disk drive	
	Control of all USB interfaces	
Access protection	User and supervisor BIOS password	
	Optional: Access protection via external SmartCard reader	
	Optional: Access protection via internal SmartCard reader	
Packaging information		
Packaging dimension	500x290x540 mm	
Max. quantity / pallet	24	
Material - Weight (g) Carton	1270 g	
Material - Weight (g) EPS / PS	200g	
Material - Weight (g) PE	аррг. 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	

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More information

Fujitsu platform solutions

In addition to Fujitsu ESPRIMO E3521 E-Star 5.0, 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 E3521 E-Star 5.0, 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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