

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

Data Sheet

Fujitsu ESPRIMO P5731 E-Star5 Desktop PC

The expandable business workhorse

The ESPRIMO P5731 E-Star5 combines high scaling with state-of-the-art Intel® technology and DDR3 memory support: it meets the daily challenges of your business applications. Almost inaudible thanks to its innovative fan concept. The optimized design makes installing and removing components child's play. Downtimes are reduced to a minimum. The use of environmentally conscious material means that the ESPRIMO P5731 E-Star5 today already meets the environmental standards of tomorrow. Furthermore, this device is equipped with an efficient power supply (up to 87%) that already meets today's ENERGY STAR® criteria. It is a good investment for you and the environment.

Microtower

Maximum performance and optimal extendability

- Top-quality, high-value microtower, 6 drive bays, 4 PCI/PCI express interfaces

ENERGY STAR®

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

- Power supply with up to 87% efficiency and enhanced power management settings

Environmentally compatible product

Your contribution to environmental protection for the continued existence of our planet

- Halogen-free mainboard, sophisticated product concept for the entire lifecycle

Silent operation

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	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 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. 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 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 SATA III, 7200 rpm, 500 GB, 3.5-inch, business critical 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
Graphics add on cards (optional)	NVIDIA® Quadro® NVS 290, 256 MB NVIDIA® GeForce® GT 420 NVIDIA® GeForce® 405 display port full height DVI Extension Adapter DVI-D + DisplayPort Extension Adapter DP to DVI-D (single link) Adapter Cable ATI Radeon® HD 5450, 512 MB
Drives (optional)	1.44 MB Floppy 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)**

USB 3.0 PCIe x1
Parallel Interface
FireWire PCI-Card IEEE1394
eSATA Interface
Dual serial card PCI

Base unit ESPRIMO P5731 E-Star5

Mainboard

Mainboard type D3011
Formfactor BTX
Chipset Intel® Q43
Processor socket LGA 775
Processor quantity maximum 1
System bus (FSB / HT / QPI) up to 1333 MHz
Memory slots 4 DIMM (DDR3)
Supported capacity RAM (max.) 16 GB
Memory frequency 1066 MHz
Memory notes Dual channel support.
For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN 10/100/1000 MBit/s Intel® 82567 LF
BIOS version Phoenix 6.0
BIOS features BIOS Flash EPROM update by software
Recovery BIOS
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 4
thereof eSATA 2 (optional)
Controller functions Serial ATA II
NCQ and 3 GBit
AHCI

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 front 2
USB rear 6
USB internal 4, thereof 2 optional rear
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

Optical USB tilt wheel mouse

Input device / components

Input devices (optional)	Optical USB/PS2 tilt wheel mouse
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Drive bays

Drive bays total	6
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 (230 mm) FlexySlot
PCI-Express x4 (mech. x8)	1 x (230 mm) Full height
PCI (32-bit / 33 MHz)	2 x (170 / 315 mm) Full height

Graphics on board

Graphics brand name	Intel® GMA 4500
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Shared video memory	up to 1759 MB
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Refresh rate 1024 x 768 (recommended / max.)	85 Hz / -
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Refresh rate 1280 x 1024 (recommended / max.)	85 Hz / -
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Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / -
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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
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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
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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
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Graphics features	Dual display support (optional with DVI/DP extension adapter) DirectX 10 HDCP support OpenGL® 2.0
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Graphics notes	Graphics controller integrated in dual-core processors. For quad-core processors graphics card is mandatory. 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
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Electrical values

Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 85% / 87% / 85%) 0-Watt mode with hard-off switch
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Rated voltage range	100 V - 240 V
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Rated frequency range	50 Hz - 60 Hz
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Operating voltage range	90 V - 264 V
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Electrical values

Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	300 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=7a1df6be-4e82-4381-b668-a0926561ef75

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 E8600
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 / 21 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.5 B / 19 dB(A)
Noise Operation mode 4: High load	3.6 B / 21 dB(A)
Noise Operation mode 5: Office applications	3.7 B / 21 dB(A)
Idle mode (Blue Angel requirement)	3.5 B / 19 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)	203 x 390 x 392 mm
Operating position	Vertical
Weight	approx. 12 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35°C

Compliance

Product	ESPRIMO P5731
Model	M13W-D3011
Germany	Blauer Engel / Blue Angel GS optional
Europe	CE Nordic Swan
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® 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)
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Additional 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
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Miscellaneous

Thermal management
Keyboard on (Special Fujitsu keyboard required)
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) Intel® Standard Manageability
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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 Advanced alerts (ASF implementation) Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)
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Security

System protection	Kensington Lock support Eye for padlock Optional: Integrated cabinet lock
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Audit proof protection	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 Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of external interfaces
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Access protection	User and supervisor BIOS password SystemLock 2 BIOS SmartCard Security Hard disk password Optional: Access protection via external SmartCard reader Optional: Access protection via internal SmartCard reader
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Serviceability

FlexySlot
EasyFix
EasyChange for HDD
EasyChange for optical drives

Packaging information

Packaging dimension	500x290x540 mm
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Packaging information

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

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 P5731 E-Star5, 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 P5731 E-Star5, 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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