

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

# Data Sheet

## Fujitsu ESPRIMO E9900 E-Star5 Desktop PC

Your desktop without compromises

The ESPRIMO E9900 E-Star5 can be positioned vertically or horizontally - the ideal choice for your desk. Equipped with state-of-the-art, highly innovative Intel® processor technology with TurboBoost and hyperthreading, this PC, made of environmentally conscious material, works quietly and reliably. Equipped with a power supply with up to 87% efficiency this system meets ENERGY STAR® criteria. The system management functions of Intel® vPro™ technology offers extended energy-saving measures and simple administration in complex IT infrastructures. Why compromise between a good conscience and top-quality equipment when you can have both at the same time?



### Small form factor PC

Flexible desktop solution whatever the space required

- Less than 13 litres volume, can be positioned vertically and horizontally

### Environmentally conscious product with ENERGY STAR certification

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

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



### Highest energy efficiency coupled with intelligent performance

The best-in-class regarding power consumption combined with new levels of performance

- State-of-the-art Intel® Core™ processors with Turbo Boost and hyperthreading technology and a power supply with up to 87% efficiency

### System management

Easy system administration for complex IT infrastructure

- Intel® vPro™ technology (depending on CPU)

### Silent operation

Pleasant working environment due to an extremely quiet system

- Innovative hardware design, optimized fan concept



# Components

<b>Processor</b>	Intel® Core™ i7-870 processor (4 Cores / 8 Threads, 2.93 GHz, 8 MB) Intel® Core™ i5-680 processor (2 Cores / 4 Threads, 3.6 GHz, 4 MB, Intel® HD Graphics) Intel® Core™ i5-660 processor (2 Cores / 4 Threads, 3.33 GHz, 4 MB, Intel® HD Graphics) Intel® Core™ i5-650 processor (2 Cores / 4 Threads, 3.20 GHz, 4 MB, Intel® HD Graphics) Intel® Core™ i3-550 processor (2 Cores / 4 Threads, 3.20 GHz, 4 MB, Intel® HD Graphics)
<b>Operating system</b>	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
<b>Operating system compatible</b>	openSUSE Linux Genuine Windows Vista® Genuine Windows® XP
<b>Operating system notes</b>	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 <a href="http://support.ts.fujitsu.com">http://support.ts.fujitsu.com</a>
<b>Memory modules</b>	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM 4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
<b>Hard disk drives (internal)</b>	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.
<b>Hard disk notes</b>	Supporting NCQ and 3 GBit
<b>Graphics add on cards (optional)</b>	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
<b>Drives (optional)</b>	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
<b>Interface add on cards/components (optional)</b>	WLAN III, 802.11g/Draft-n (Windows only) USB 3.0 PCIe x1 Parallel Interface Modem adapter kit (EU) Modem 56k incl. RJ11 modem cable Gigabit Ethernet PCIe x1 FireWire PCI-Card IEEE1394 eSATA Interface Dual serial card PCI LP
<b>Base unit</b>	ESPRIMO E9900 E-Star5

**Mainboard**

Mainboard type	D2924
Formfactor	proprietary
Chipset	Intel® Q57
Processor socket	LGA 1156
Processor quantity maximum	1
Memory slots	4 DIMM (DDR3)
Supported capacity RAM (max.)	16 GB
Memory frequency	1333 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 Intel® 82578 DM
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

**I/O controller on board**

Serial ATA total	4
thereof eSATA	2 (optional)
Controller functions	Serial ATA II NCQ and 3 GBit AHCI Raid 1/0

**Interfaces**

Audio: line-in	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
VGA	1 (via DVI to VGA adapter; included for onboard graphics only)
DisplayPort	1 (for onboard graphics only)
DVI	1 (for onboard graphics only)
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 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 2.0 x16	1 x (210 mm) Low profile
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<b>Slots</b>	
PCI-Express x4 (mech x16)	1 x (210 mm) Low profile
PCI (32-bit / 33 MHz)	2 x (190 mm) Low profile
Slots optional configuration	or 1x PCI Express x16 low profile (190mm) and via Riser 2 x PCI full height (174 / 210 mm)

**Graphics on board**

Graphics brand name	Intel® HD Graphics (integrated in dual-core processors only)
Shared video memory	up to 1759 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 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
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
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 DirectX 10.1 HDCP support OpenGL® 2.0
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

**Electrical values**

Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 84% / 87% / 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	250 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
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**Power consumption**

Link to Energy White Paper	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=53e4e633-7bb5-403e-90d7-cd3af5d0fb05">http://docs.ts.fujitsu.com/dl.aspx?id=53e4e633-7bb5-403e-90d7-cd3af5d0fb05</a>
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**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™ i5-670 ; Intel® Core™ i7-860 including NVIDIA® Geforce® 9500GS
Noise Operation mode 1: ODD load (Blue angel requirement)	4.7 B / 32 dB(A) ; 4.5 B / 30 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.6 B / 20 dB(A) ; 3.4 B / 18 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.5 B / 19 dB(A) ; 4.1 B / 27 dB(A)
Noise Operation mode 4: High load	3.6 B / 20 dB(A) ; 4.1 B / 26 dB(A)
Noise Operation mode 5: Office applications	3.6 B / 20 dB(A) ; 3.7 B / 21 dB(A)
Idle mode (Blue Angel requirement)	3.5 B / 19 dB(A) ; 3.4 B / 17 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)	340 x 380 x 100 mm
Operating position	Vertical / horizontal (no feet needed)
Weight	approx. 10 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35°C

**Compliance**

Product	ESPRIMO E9900
Model	DT7-2924
Germany	Blauer Engel / Blue Angel in progress 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	<a href="https://sp.ts.fujitsu.com/sites/certificates/default.aspx">https://sp.ts.fujitsu.com/sites/certificates/default.aspx</a>

**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

**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)  
iAMT 6.0

**Manageability software** DeskView 10.x client management including:

**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)

**Manageability link** <http://ts.fujitsu.com/manageability>  
<http://www.altiris.com/fujitsu>

**Security**

**System protection** Kensington Lock support  
Eye for padlock  
Optional: Integrated cabinet lock

**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  
Control of external interfaces

**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

**Serviceability**

FlexySlot  
EasyFix  
EasyChange for HDD  
EasyChange for optical drives

**Packaging information**

**Packaging dimension** 500x290x540 mm

**Max. quantity / pallet** 24

**Material - Weight (g) Carton** 1270 g

**Material - Weight (g) EPS / PS** 230 g

**Material - Weight (g) PE** appr. 60 g

**Packaging notes** printed user documentation is bleached in chlorine free process

**Warranty**

**Standard Warranty** 3 years

**Service level** Bring-In / On-Site Service (depending on country)

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

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**Warranty**

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

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## More information

### Fujitsu platform solutions

In addition to Fujitsu ESPRIMO E9900 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/](http://www.fujitsu.com/global/services/computing/)

#### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

### More information

Learn more about Fujitsu ESPRIMO E9900 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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2011-07-29 CE-EN

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