

DATA SHEET

ESPRIMO E7935 E-Star 5.0

Issue: September 2009

Your desktop without compromises

ESPRIMO E7935 E-Star 5.0

The ESPRIMO E7935 E-Star 5.0 can be positioned vertically or horizontally - the ideal choice for your desk. Equipped with state-of-the-art Intel® technology, especially with regard to system management, this PC, made of environmentally-conscious material, operates reliably and quietly. Furthermore, this device is equipped with an efficient power supply (up to 87%) that already meets today's ENERGY STAR® 5.0 criteria. 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 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

Innovative hardware design, optimized cooling concept

- Pleasant working environment due to an extremely quiet system

System management

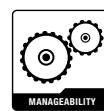
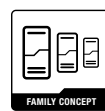
Easy system administration for complex IT infrastructure

- Intel® vPro™ technology

ENERGY STAR® 5.0

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

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



Components

Processor	Intel® Core™2 Quad Q9550 (2.83 GHz, 12 MB , 1333 MHz) Intel® Core™2 Quad Q9650 (3.0 GHz, 12 MB , 1333 MHz) Intel® Core™2 Quad Q9505 (2.83 GHz, 6 MB , 1333 MHz) Intel® Core™2 Quad Q9400 (2.66 GHz, 6 MB , 1333 MHz) Intel® Core™2 Quad Q8300 (2.5 GHz, 4 MB , 1333 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 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® E3200 (2.4 GHz, 1 MB , 800 MHz) Intel® Celeron® E1500 (2.2 GHz, 512 KB , 800 MHz)
Memory modules	4 GB (1 module(s) with 4 GB) DDR2, 800 MHz, PC2-6400 2 GB (2 module(s) with 1 GB) DDR2, 800 MHz, PC2-6400 2 GB (1 module(s) with 2 GB) DDR2, 800 MHz, PC2-6400 1 GB (1 module(s) with 1 GB) DDR2, 800 MHz, PC2-6400
Hard disk drives (internal)	SSD SATA, 128 GB, 2.5-inch 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. business critical 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, 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)	Dual DVI / Single Display port adapter DVI Adapter NVIDIA® Geforce® 9300GE low profile 256 MB NVIDIA® Geforce® 9300GE low profile 512 MB NVIDIA® Geforce® 9500GS low profile 512 MB NVIDIA® Quadro NVS 290 low profile 256 MB
Modular bay options	1.44 MB Floppy, standard Blu-ray Disc Triple Writer DVD-ROM DVD Super Multi MultiCard Reader 20in1, 3,5-Inch
Interface add on cards/components (optional)	Parallel Interface FireWire PCI-Card IEEE1394 eSATA Interface Dual serial card PCI LP
Base unit	ESPRIMO E7935 E-Star5
Mainboard	
Mainboard type	D2828
Formfactor	proprietary
Chipset	Intel® Q45

Mainboard

Processor socket	LGA 775
Processor quantity maximum	1
System bus (FSB / HT / QPI)	up to 1333 MHz
Memory slots	4 DIMM (DDR2)
Supported capacity RAM (max.)	16 GB
Memory frequency	800 MHz
Memory notes	With future modules. 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® 82567LM
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: headphone	1
Front audio: microphone	1
USB 2.0 total	12
USB front	2
USB rear	6
USB internal	4
VGA	1
DVI	optional
Serial (RS-232)	2 (9pin, 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	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 Gen2 x16	1 x (210 mm) low profile
PCI-Express x4 (mech. x8)	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)

Graphic on board

Graphics brand name	Intel® GMA 4500
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Graphic on board

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	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size Resolution (color depth up to 32 Bit/pixel) For TFT we recommend to use 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 - 240 V
Rated frequency range	50 - 60 Hz
Operating voltage range	90 - 264 V
Operating line frequency range	47 - 63 Hz
Max. output of power supply	250 W
Power factor correction/active power	active
Monitor outlet	No

Power consumption

Power consumption note	see white paper Energy Consumption
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=16c41a10-e759-4aa6-b43d-ee333846f70f

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)	3.5 B / 19 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.6 B / 20 dB(A)
Noise Operation mode 4: High load	3.8 B / 22 dB(A)
Noise Operation mode 5: Office applications	3.6 B / 20 dB(A)
Idle mode (Blue Angel requirement)	3.4 B / 18 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)	340 x 380 x 100 mm
Operating position	Vertical / horizontal (no feet needed)
Weight	approx. 10 kg
Weight notes	Weight may vary depending on actual configuration
Operating ambient temperature	15 - 35°C

Compliance

Product	ESPRIMO E7935
Model	DT7-2828
Germany	Blauer Engel / Blue Angel in progress GS optional
Europe	CE Nordic Swan in progress
USA/Canada	FCC Class B UL cCSAus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 EPEAT® Silver
Compliance link	https://sp.ts.fujitsu.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 Microsoft® Windows Vista® Business 64bit 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® Drivers & Utilities DVD (DUDVD) Windows® XP

Miscellaneous

Keyboard on (Fujitsu keyboard required)
Thermal management

Compatibility (references)

DMI 2.0
PC 2001
WMI 1.5
USB 2.0

Manageability

Manageability features	ASF 2.0 (Alert Standard Format) DeskUpdate Driver management DeskView Migrate (optional) DeskView Control (optional) PXE 2.1 Boot code BootP Boot Code including Bootmanage Administrator Software (tested) Wake up from S5 (off mode) Intrusion switch (optional) iAMT 5.0
Manageability type	DeskView 10.x client management including:
DeskView features	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/fsc

Security

Physical security	Kensington Lock support Eye for padlock Optional: Integrated cabinet lock
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Security

System security	Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) - Infineon 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
User security	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

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

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:

<http://ts.fujitsu.com/aboutus>

Take back and Recycling information:

<http://ts.fujitsu.com/recycling>

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