FUJITSU

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

DATASHEET
FUJITSU ESPRIMO E5635 E-STAR 5.0 DESKTOP PC

YOUR DESKTOP WITHOUT COMPROMISES

ESPRIMO E5635 E-STAR 5.0

The ESPRIMO E5635 E-Star 5.0 works reliably and is quiet; it is equipped with state-of-the art AMD processor technology and built using environmentally conscious material. It can be positioned vertically or horizontally - ideal if there is hardly any space. The easy-to-service design enables access to all the components; the PC can be extended without long downtimes. Additionally equipped with a power supply with up to 87% efficiency and specially selected components, the PC today already meets ENERGY STAR® 5.0 requirements, reducing your power consumption and keeping costs to a minimum.

SMALL FORM FACTOR PC
Flexible desktop solution whatever the space required.
■ Less than 13 litres volume, can be positioned vertically and horizontally

ENERGY STAR® 5.0 READY
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
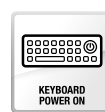
SILENT OPERATION
Pleasant working environment due to an extremely quiet system
■ Innovative hardware design, optimized cooling concept

SERVICEABILITY
Easy to extend and optimal user-friendliness without any additional tools
■ Easy access to all replaceable and expandable components

AMD Phenom 64

ENERGY STAR

DER BLAUE ENGEL KLIMA

Green IT

HALOGEN FREE

QUIET RUNNING

EASY ACCESS CABINET

TWIN LOAD

FAMILY CONCEPT

MANAGEABILITY

KEYBOARD POWER ON

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

COMPONENTS

PROCESSOR	AMD Phenom™ II X4 945 (4 Cores, 3.0 GHz, 8 MB)
	AMD Phenom™ II X2 545 (2 Cores, 3.0 GHz, 7 MB)
	AMD Athlon™ II X2 240e (2 Cores, 2.8 GHz, 2 MB)
	AMD Athlon™ II X2 240 (2 Cores, 2.8 GHz, 2 MB)
OPERATING SYSTEM	
Operating system optional preinstalled	Genuine Windows 7® Home Premium
	Genuine Windows 7® Professional
	Genuine Windows Vista® Home Basic
	Genuine Windows Vista® Home Premium
	Genuine Windows Vista® Business 32-bit
	Genuine Windows Vista® Business 64-bit
	TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Linux
Operating system notes	All Windows Vista® and Windows® 7 versions are Office 2007 ready.
	Limited Windows XP support. Microsoft discontinued Windows XP certification on system level.
MEMORY MODULES	1 GB (1 module(s) 1 GB) DDR2, 800 MHz, PC2-6400
	2 GB (1 module(s) 2 GB) DDR2, 800 MHz, PC2-6400
	2 GB (2 module(s) 1 GB) DDR2, 800 MHz, PC2-6400
	4 GB (1 module(s) 4 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)	DVI Adapter
	NVIDIA® GeForce® 9300GE display port low profile, 512 MB
	NVIDIA® Quadro® NVS 290 low profile, 256 MB
DRIVES (OPTIONAL)	1.44 MB Floppy
	Blu-ray Disc™ Triple Writer
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 20in1, 3.5-Inch
INTERFACE ADD ON CARDS/COMPO-NENTS (OPTIONAL)	
	Parallel Interface
	eSATA Interface
Base unit	ESPRIMO E5635 E-Star5
MAINBOARD	
Mainboard type	D2904
Formfactor	proprietary
Chipset	NVIDIA® MCP78PV
Processor socket	AM2+
Processor quantity maximum	1
System bus (FSB / HT / QPI)	up to 4000 MHz

MAINBOARD

Memory slots	4 DIMM (DDR2)
Supported capacity RAM (max.)	16 GB
Memory frequency	800 MHz
Memory notes	Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same.
LAN	10/100/1000 MBit/s Broadcom BCM5787
BIOS version	Phoenix 6.0
BIOS features	BIOS Flash EPROM update by software Recovery BIOS
Audio codec	Realtek ALC262
Audio features	Internal speaker supports audio playback, High Definition audio

I/O CONTROLLER ON BOARD

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

INTERFACES

Audio: line-in	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
USB 2.0 total	10
USB front	2
USB rear	6
USB internal	2
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)
Interface Module notes	Anytime USB charge functionality

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 2.0 x16	1 x (210 mm) low profile
PCI-Express x1	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 heigh (174 / 210 mm)

GRAPHICS ON BOARD

Graphics brand name	NVIDIA® GeForce® 9200
Shared video memory	up to 512 MB
Refresh rate 1024 x 768 (recommended / max.)	120 Hz / 200 Hz

GRAPHICS ON BOARD

Refresh rate 1280 x 1024 (recommended / max.)	100 Hz / 150 Hz
Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / 100 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
Graphics features	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

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 single 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=cd4f8e9f-fcb1-4b53-af0a-ab3fa7d86412

HEAT DISSIPATION

Heat dissipation notes	See white paper Energy Consumption

NOISE FOR STANDARD CONFIGURATION (HDD, ODD, FDD)

Noise emission	According to ISO9296
Related Processors for noise	AMD® Phenom™ II X4 925
Noise Operation mode 1: ODD load (Blue angel requirement)	4.5B / 30 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.7B / 21 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.7B / 21 dB(A)
Noise Operation mode 4: High load	3.7B / 22 dB(A)
Noise Operation mode 5: Office applications	3.7B / 21 dB(A)
Idle mode (Blue Angel requirement)	3.6B / 20 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)

DIMENSIONS / WEIGHT / ENVIRONMENTAL

Weight	approx. 10 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	15 - 35°C

COMPLIANCE

Product	ESPRIMO E5635
Model	DT7-D2904
Germany	Blauer Engel / Blue Angel in progress GS optional
Europe	CE Nordic Swan
USA/Canada	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

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)

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 PXE 2.1 Boot code BootP Boot Code including Bootmanage Administrator Software (tested) Wake up from S5 (off mode) Intrusion switch (optional)
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/fujitsu

SECURITY

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

SECURITY

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

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

FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu ESPRIMO E5635 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 E5635 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/

CONTACT

FUJITSU Technology Solutions
Website: http://ts.fujitsu.com
2010-07-30 CE-EN