

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

Data Sheet

Fujitsu ESPRIMO P9900 E-Star5 Desktop PC

The expandable business workhorse

The ESPRIMO P9900, equipped with state-of-the-art, highly innovative Intel® processor technology with Turbo Boost and hyperthreading, is the ideal companion for all those highly demanding business applications. Produced with selected material and equipped with comprehensive powersave options and energy-saving management, the ESPRIMO microtower PC today already meets the environment requirements of tomorrow. With extended system management functions, intelligent hardware design, extensive tests and a lifecycle of up to 18 months, the high performance levels of this PC meet every requirement. Furthermore, this microtower, equipped with a power supply with up to 87% efficiency, meets ENERGY STAR® certification requirements.



Microtower

Maximum performance and optimal extendability

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

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 89% 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

| | |
|---|--|
| Processor | 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) |
| 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 | 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 |
| 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 DP to DVI-D (single link) Adapter Cable ATI Radeon® HD 5450, 512 MB |
| Drives (optional) | 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) | 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 |

| | |
|----------------------------------|--|
| Base unit | ESPRIMO P9900 E-Star5 |
| Mainboard | |
| Mainboard type | D2912 |
| Formfactor | BTX |
| 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, identical memory modules in each channel are necessary (minimum 2 modules). |
| 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, 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 Raid 1/0 |
| 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 | 14 |
| USB front | 2 |
| USB rear | 8 |
| 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 | |
| Input devices (optional) | Optical USB tilt wheel mouse Optical USB/PS2 tilt wheel mouse |
| 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 x16) | 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® 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) : 85% / 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 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

Power consumption

Link to Energy White Paper <http://docs.ts.fujitsu.com/dl.aspx?id=adfeda65-820c-4844-b1a2-a270b53134db>

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 Intel® Core™ i5-670 ; Intel® Core™ i7-860 including NVIDIA® Geforce® 9500GS

Noise Operation mode 1: ODD load (Blue angel requirement) 4.4 B / 29 dB(A) ; 4.4 B / 29 dB(A)

Noise Operation mode 2: HDD load (Blue angel requirement) 3.7 B / 21 dB(A) ; 3.6 B / 21 dB(A)

Noise Operation mode 3: CPU 90% load (Blue angel requirement) 3.9 B / 24 dB(A) ; 3.9 B / 24 dB(A)

Noise Operation mode 4: High load 3.9 B / 23 dB(A) ; 3.9 B / 24 dB(A)

Noise Operation mode 5: Office applications 3.8 B / 22 dB(A) ; 3.6 B / 20 dB(A)

Idle mode (Blue Angel requirement) 3.7 B / 20 dB(A) ; 3.6 B / 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) 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 P9900

Model MI3W-D2912

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)

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)

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

Recommended Service 5x9, Response Time: Next Business Day

Warranty

Spare Parts availability

5 years

Service Weblink

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

More information

Fujitsu platform solutions

In addition to Fujitsu ESPRIMO P9900 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 P9900 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/>



Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see http://ts.fujitsu.com/terms_of_use.html

Copyright © Fujitsu Technology Solutions

Disclaimer

Technical data are subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner

Contact

FUJITSU Technology Solutions
Website: <http://ts.fujitsu.com>
2011-07-29 CE-EN

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see http://ts.fujitsu.com/terms_of_use.html
Copyright © Fujitsu Technology Solutions