

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

Data Sheet

Fujitsu ESPRIMO E3521 E85+ Desktop PC

Your flexible economy PC

The ESPRIMO E3521 E85+ is the right choice for major customers requiring the latest standard technology. This small form factor PC, less than 13 litres in volume, combines top performance and extremely attractive prices. Freely configurable, with proven Intel® technology, a power supply unit with up to 87% efficiency and an extended product lifecycle of max.12 months make this PC the ideal choice for cost-driven projects.

Excellent price / performance ratio

Cost-effective system for major customer projects

- Entry-level PC with standard technology

Flexibility

Freedom of choice with tailored systems, perfect fit for specific requirements

- Flexible logistic concept - customizing program (made4you)

Reliability

Excellent quality and functional stability

- Proprietary development and production in Europe

Lifecycle

Hardware continuity for long lasting project needs

- Managed lifecycle up to 12 months

Technology

High-performance and reliable partner for your daily business

- Intel® G41 chipset and Intel® Core™2 Quad processors



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) |
| | Intel® Celeron® processor 450 (1 Core / 1 Threads, 2.2 GHz, 512 KB, 800 MHz) |
| Operating system | |
| Operating system | Genuine Windows® 7 Starter (EM) 32-bit |
| | 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 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 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 |
| Drives (optional) | 1.44 MB Floppy |
| | 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
 Gigabit Ethernet PCIe x1
 Dual serial card PCI LP

Base unit ESPRIMO E3521 E85+

Mainboard

Mainboard type D3041
Formfactor ATX
Chipset Intel® G41
Processor socket LGA 775
Processor quantity maximum 1
System bus (FSB / HT / QPI) up to 1333 MHz
Memory slots 2 DIMM (DDR3)
Supported capacity RAM (max.) 8 GB
Memory frequency 1066 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 Realtek RTL8111DL
BIOS version Phoenix 6.0
BIOS features BIOS Flash EPROM update by software
 Recovery BIOS
Audio codec Realtek ALC663
Audio features High Definition audio, 5.1 surround sound

I/O controller on board

Serial ATA total 4
thereof eSATA 0
Controller functions Serial ATA II
 3 GBit

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 8
USB front 2
USB rear 4
USB internal 2
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

Input devices (optional) Optical USB wheel mouse
 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 x16 | 1 x (210 mm) Low profile |
| PCI-Express x1 | 1 x (210 mm) Low profile |
| PCI (32-bit / 33 MHz) | 2 x (170/ 190 mm) Low profile |

Graphics on board

| | |
|---|---|
| Graphics brand name | Intel® GMA 4500 |
| 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 (optional with DVI/DP extension adapter) 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) : 86% / 88% / 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 |

Electrical values

| | |
|--------------------------------------|--------|
| 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=3bbee420-81f5-41a9-92f9-f4d775d919ab |

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™2 Duo E8600 |
| Noise Operation mode 1: ODD load (Blue angel requirement) | 4.4 B / 29 dB(A) |
| Noise Operation mode 2: HDD load (Blue angel requirement) | 4.1 B / 26 dB(A) |
| Noise Operation mode 3: CPU 90% load (Blue angel requirement) | 4.0 B / 25 dB(A) |
| Noise Operation mode 4: High load | 4.1 B / 26 dB(A) |
| Noise Operation mode 5: Office applications | 4.1 B / 26 dB(A) |
| Idle mode (Blue Angel requirement) | 4.0 B / 24 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) | 330 x 405 x 104 mm |
| Operating position | Vertical / horizontal (optional, feet needed) |
| Weight | approx. 10 kg |
| Weight notes | Actual weight may vary depending on configuration |
| Operating ambient temperature | 10 - 35°C |

Compliance

| | |
|-----------------|--|
| Product | ESPRIMO E3521 |
| Model | DTL1-3041 |
| Germany | GS |
| Europe | CE |
| USA/Canada | FCC Class B CSA |
| Global | RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) |
| 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 Power2Go 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 |

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) |
| DeskView components | 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 |
| Audit proof protection | Boot sector virus protection Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of all USB interfaces |
| Access protection | User and supervisor BIOS password Optional: Access protection via external SmartCard reader Optional: Access protection via internal SmartCard reader |

Packaging information

| | |
|---------------------------------------|---|
| Packaging dimension | 500x290x540 mm |
| Max. quantity / pallet | 24 |
| Material - Weight (g) Carton | 1270 g |
| Material - Weight (g) EPS / PS | 200g |
| 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 E3521 E85+, 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 E3521 E85+, 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