

Fujitsu recommends Windows 8 Pro.

# Data Sheet

## Fujitsu ESPRIMO Q520

### Desktop PC

The Mini with More PC per cm<sup>3</sup>

The FUJITSU PC ESPRIMO Q520, featuring full desktop PC functionality in a stylish and compact housing, is a real eye-catcher on your desk. Latest generation Intel® Core™ processors deliver the performance to meet your daily office needs. The Zero Noise functionality guarantees silent operation. An integrated 90%-efficient power supply cuts your energy bill. The innovative Low Power Active Mode provides businesses with a wide range of new usage scenarios like telephony and video conferencing. Its compact size and wide range of interfaces make the FUJITSU PC ESPRIMO Q520 your first choice for locations where space saving is key.



#### An elegant mini PC for challenging office tasks

Eye-catcher on every desk with a modern and exclusive design

- Fully equipped PC with a volume of only 1.9 liters - based on standard desktop technology

#### Always available office PC

Provides businesses with a wide range of new usage scenarios like telephony and video conferencing

- Combines availability with energy saving. The PC looks like it is off but background application tasks can still run in the Low Power Active Mode

#### Made in Germany

Outstanding quality and stable functions based on German production standards

- The development, production and function tests - all under one roof in Germany

#### Superb usability

Pleasant working environment due to a tidy desk

- Horizontal or vertical operations and an integrated VESA mount, service door for easy upgrade of major components

#### Latest technology

Get your office job done fast and reliable

- 4th generation Intel® Core™ processor family



# Components

<b>Processor</b>	Intel® Core™ i7-4765T processor (4 Cores / 8 Threads, 2.00 GHz, up to 3.0 GHz, 8 MB, Intel® HD Graphics 4600) * Intel® Core™ i5-4570T processor (2 Cores / 4 Threads, 2.90 GHz, up to 3.6 GHz, 4 MB, Intel® HD Graphics 4600) * Intel® Core™ i3-4130T processor (2 Cores / 4 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics 4400) Intel® Pentium® processor G3220T (2 Cores / 2 Threads, 2.60 GHz, 3 MB, Intel® HD Graphics) *with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)
<b>Operating systems</b>	
<b>Operating system</b>	Windows 8 Pro Windows 8 Windows® 7 Professional 64-bit Windows® 7 Professional 32-bit
<b>Memory modules</b>	2 GB (1 module(s) 2 GB) DDR3, non-ECC, 1600 MHz, PC3-12800, SO DIMM 4 GB (1 module(s) 4 GB) DDR3, non-ECC, 1600 MHz, PC3-12800, SO DIMM 8 GB (1 module(s) 8 GB) DDR3, non-ECC, 1600 MHz, PC3-12800, SO DIMM
<b>Hard disk drives (internal)</b>	SSHD SATA III, 5400 rpm, 500 GB, 2.5-inch SSD SATA III Premium, 256 GB, 2.5-inch SSD SATA III Premium, 128 GB, 2.5-inch SSD SATA III, 256 GB, 2.5-inch SSD SATA III, 128 GB, 2.5-inch, SED SSD SATA III, 128 GB, 2.5-inch HDD SATA II, 7200 rpm, 320 GB, 2.5-inch HDD SATA II, 5400 rpm, 1000 GB, 2.5-inch* HDD SATA II, 5400 rpm, 750 GB, 2.5-inch* HDD SATA II, 5400 rpm, 500 GB, 2.5-inch* HDD SATA II, 5400 rpm, 320 GB, 2.5-inch*
<b>Hard disk notes</b>	Up to 20 GB of HDD space is reserved for system recovery SSHD (Solid State Hard Disk, Hybrid drive) SSD (Solid State Disk) SED (Self-Encrypting Drive)
<b>Drives (optional)</b>	BD Triple Writer SATA Slot-in slim DVD Super Multi Slot-in slim
<b>Interface add on cards/components (optional)</b>	WLAN 802.11 b/g/n (2x2) and Bluetooth (dedicated regions only)
<b>Base unit</b>	ESPRIMO Q520
<b>Mainboard</b>	
<b>Mainboard type</b>	D3223
<b>Formfactor</b>	proprietary
<b>Chipset</b>	Intel® H81
<b>Processor socket</b>	LGA 1150
<b>Processor quantity maximum</b>	1
<b>Memory slots</b>	2 SO DIMM (DDR3, 1600 MHz)
<b>Supported capacity RAM (max.)</b>	16 GB
<b>Memory frequency</b>	1600 MHz
<b>Memory notes</b>	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
<b>LAN</b>	10/100/1000 MBit/s Intel® I217LM

**Mainboard**

Integrated WLAN	1 (optional with Bluetooth together)
BIOS version	AMI Aptio 4.6
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio codec	Realtek ALC671
Audio features	Buzzer

**I/O controller on board**

Serial ATA total	2
thereof SATA III	2
Controller functions	Serial ATA II (3 Gbit) Serial ATA III (6 Gbit) NCQ AHCI

**Interfaces**

Audio: line-out / headphone	1
Audio: line-in / microphone	1
USB 2.0 total	4
USB 3.0 total	2
USB front	2x 3.0
USB rear	4x 2.0
VGA	1 (via DVI to VGA adapter, part of shipment)
DisplayPort	1
DVI	1 (DVI-I)
Ethernet (RJ-45)	1
Kensington Lock support	1
Multicardreader	1 (SD, MMC)
Interface Module notes	Anytime USB charge functionality

**Input device / components**

	Optical USB wheel mouse
Input devices (optional)	KBPC PX ECO Mouse M440 ECO

**Drive bays**

Drive bays total	2
2.5-inch internal bays	1
5.25-inch external bays	1
Drive bay notes	slim slot-in for 5.25"

**Graphics on board**

Graphics brand name	Intel® HD Graphics 4600
Shared video memory	up to 1782 MB
TFT resolution (VGA)	1024 x 768 pixel 1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1600 x 1200 pixel 1680 x 1050 pixel 1920 x 1080 pixel

**Graphics on board**

<b>TFT resolution (DVI)</b>	1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
<b>TFT resolution (DisplayPort)</b>	1280 x 1024 pixel 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 3840 x 2160 pixel (requires Intel® Core™ i3, i5 or i7 processor)
<b>Graphics features</b>	Dual display support DirectX® 11.1 HDCP support Open GL® 3.3 Open CL® 1.2
<b>Graphics notes</b>	up to 1 GB dedicated video memory (main memory owned and locked for graphics use) 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**

<b>Power efficiency note</b>	power supply efficiency (at 115V/230V; 10% / 20% / 50% / 100% load) : 83% / 87% / 90% / 88%
<b>Rated voltage range</b>	100 V - 240 V
<b>Rated frequency range</b>	50 Hz - 60 Hz
<b>Operating voltage range</b>	90 V - 264 V
<b>Operating line frequency range</b>	47 Hz - 63 Hz
<b>Max. output of single power supply</b>	65 W (integrated in system)
<b>Power factor correction/active power</b>	No (meets input harmonic current according EN61000-3-2)
<b>Monitor outlet</b>	No

**Power consumption**

<b>Power consumption note</b>	See white paper Energy Consumption
<b>Link to Energy White Paper</b>	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=28ceea4d-a565-4450-8cbe-393fef8b4864">http://docs.ts.fujitsu.com/dl.aspx?id=28ceea4d-a565-4450-8cbe-393fef8b4864</a>

**Heat dissipation**

<b>Heat dissipation notes</b>	See white paper Energy Consumption
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**Noise emission**

<b>Related Processors for noise</b>	Intel® Core i7-4765T
<b>Standard noise emission</b>	2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
<b>Standard noise notes / description</b>	A-weighted sound power level L <sub>wad</sub> (in B) / Workplace related A-weighted sound pressure level L <sub>pAm</sub> (in dB(A))
<b>Standard noise operation mode: CPU 50% load</b>	tbd
<b>Standard noise operation mode: HDD load</b>	3.0 B / 17 dB(A) Bystander ; 19 dB(A) Operator position
<b>Standard noise operation mode: Idle mode</b>	SSD: no noise emission, 2.5" HDD: 3.0 B / 17 dB(A) Bystander ; 17 dB(A) Operator position
<b>Standard noise operation mode: ODD load</b>	4.5 B / 31 dB(A) Bystander ; 34 dB(A) Operator position

**Noise emission**

<b>Standard noise operation mode: Office applications 2.0</b>	SSD: no noise emission, 2.5" HDD: 3.0 B / 17 dB(A) Bystander ; 18 dB(A) Operator position
<b>Blue angel noise emission according certification</b>	According to ISO 7779:2010, ECMA-74 for max. possible configuration
<b>Blue angel noise notes / description</b>	A-weighted sound power level L <sub>wad</sub> (in B); 1B = 10dB
<b>Blue angel noise operation mode: HDD load</b>	3.2 B = 32 dB
<b>Blue angel noise operation mode: Idle mode</b>	3.1 B = 31 dB
<b>Blue angel noise operation mode: ODD load</b>	4.7 B = 47 dB

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	185 x 188 x 54 mm 7.29 x 7.41 x 2.13 inch
<b>Operating position</b>	Vertical / horizontal (no feet needed)
<b>VESA mount</b>	integrated (100mm), applicable for selected monitors only, additional mounting kit for specific monitors optional
<b>Weight</b>	1.6 kg
<b>Weight (lbs)</b>	3.53 lbs
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	10 - 35 °C (50 - 95 °F)

**Compliance**

<b>Product</b>	ESPRIMO Q520
<b>Model</b>	MPC2
<b>Germany</b>	TÜV GS
<b>Europe</b>	CE
<b>USA/Canada</b>	FCC Class B cCSAus
<b>Global</b>	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 (dedicated regions) EPEAT® Gold (dedicated regions)
<b>Compliance notes</b>	This product is free of poly(vinyl chloride (PVC) when ordered with the optional PVC free power cord
<b>Compliance link</b>	<a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.ts.fujitsu.com/sites/certificates</a>

**Additional Software**

<b>Additional software (preinstalled)</b>	Workplace Protect (secure authentication solution) Adobe® Reader® (pdf reader) McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) Win7: Fujitsu Recovery (hard disk based recovery) Win8: Microsoft Push Button Recovery (hard disk based recovery) Microsoft Office (buy license to activate the pre-installed Microsoft Office)
<b>Additional software (optional)</b>	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™) CyberLink PowerDVD DVD (playback software for DVD) Nero 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) WoL (Wake on LAN)
Manageability software	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform
DeskView components	Inventory Management BIOS Management Driver Management Security Management Alarm Management
Manageability link	<a href="http://www.fujitsu.com/fts/manageability">http://www.fujitsu.com/fts/manageability</a>

**Security**

Physical Security	Kensington Lock support Housing Lock Plate (to use with Kensington lock)
System and BIOS Security	Boot sector virus protection Write protect option for the Flash EPROM Control of external interfaces External USB ports can be disabled separately
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional)

**Packaging information**

Packaging dimension (mm)	395 x 198 x 284 mm
Packaging dimension (inch)	15.55 x 7.8 x 11.18 inch
Max. quantity / pallet	84
Material - Weight (g) Carton	670 g
Material - Weight (lbs) Carton	1.48 lbs
Material - Weight (g) EPS / PS	10 g
Material - Weight (lbs) EPS / PS	0.02 lbs
Material - Weight (g) PE	125 g
Material - Weight (lbs) PE	0.28 lbs
Packaging notes	If keyboard is included in packaging: 1.) packaging dimension is increasing to: 500 x 208 x 290mm / (19.69 x 8.19 x 11.42 inch); 2.) material weight of carton will increase to 880g; 3.) max. quantity/pallet = 56; printed user documentation is bleached in chlorin free process;

**Warranty**

Standard Warranty	1 year (depending on country)
Service level	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 1 year material warranty)
Warranty Terms & Conditions	<a href="http://support.ts.fujitsu.com/warranty">http://support.ts.fujitsu.com/warranty</a>
<b>Maintenance and Support Services - the perfect extension</b>	
Recommended Service	9x5, Response Time: Next Business Day
Spare Parts availability	5 years after end of product life
Service Weblink	<a href="http://www.fujitsu.com/fts/services/support">http://www.fujitsu.com/fts/services/support</a>

## Recommended Accessories

**USB 3.0 Port Replicator PR08**

The Fujitsu USB 3.0 Port Replicator PR08 is the solution for notebooks without a dedicated docking connector or in hot-desk environments. You can connect to the local area network, and to all of your peripherals with a single USB 3.0 plug and boost your productivity by extending your workspace over up to four displays.

Order Code:  
S26391-F6007-L400

**Display B24W-6 LED**

The Fujitsu Display B24W-6 LED combines the best ergonomic and energy saving solutions for intensive office use. The flexible stand with height adjust assures an individual and healthy posture for long-time working sessions. With its impressive screen size it allows working on different documents in parallel or standard CAD applications.

Order Code:  
S26361-K1427-V140

**CELVIN® Drive M200**

The CELVIN Drive M200 is an ultra-portable and high-class storage device. Since it is compatible with USB3.0 and USB 2.0, it can be used with a large variety of devices. It is ideal for notebook and desktop users. It makes data backup easier and faster than ever.

Order Code:  
S26341-F103-L500

**SOUNDSYSTEM DS E2000 Air**

The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting.

Order Code:  
S26391-F7128-L600

**Wireless Keyboard Set LX900**

The Wireless Keyboard LX900 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security.

S26381-K564-L4\*\* (\*\*:  
Country specific variation)

## More information

### Fujitsu OPTIMIZATION Services

In addition to Fujitsu ESPRIMO Q520, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

### 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 Q520, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/fts/ESPRIMO](http://www.fujitsu.com/fts/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 contribute to the creation of a sustainable environment for future generations through IT. Please find further information at <http://www.fujitsu.com/global/about/environment>



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