

Fujitsu recommends Windows® 7.

# Data Sheet

## Fujitsu ESPRIMO Q510 Desktop PC

The Mini with More PC per cm

A real eye-catcher on your desk and anywhere else. The extremely small and elegant Fujitsu ESPRIMO Q510. The mini PC combines the performance of a fully equipped Desktop PC, low energy consumption, ENERGY STAR® certification, hardly any noise, a large number of practical connections, such as HDMI and USB 2.0 - all on a very small footprint with a volume of only 1.9 liters

### An elegant mini PC for challenging office tasks

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

- Fully equipped mini PC with a volume of 1.9 liters - a true member of the Fujitsu ESPRIMO Desktop family now based on Desktop technology

### Black shell and a green core

The most energy-efficient computer of the Fujitsu ESPRIMO family cuts your energy bill and helps to save your budget

- Sophisticated technology, low energy-consuming processors and an 90% effective onboard power supply

### 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

### Flexible operations and easy upgrade of the system

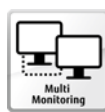
Pleasant working environment due to a tidy desk

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

### Advanced technology

Get your office job done fast and reliable

- 3rd generation Intel® Core™ processor family



# Components

<b>Processor</b>	Intel® Core™ i5-3470T processor (2 Cores / 4 Threads, up to 3.60 GHz 2.90 GHz, 6 MB, Intel® HD Graphics 2500) * Intel® Core™ i3-2120T processor (2 Cores / 4 Threads, 2.60 GHz, 3 MB, Intel® HD Graphics 2000) Intel® Pentium® processor G640T (2 Cores / 2 Threads, 2.40 GHz, 3 MB, Intel® HD Graphics) Intel® Pentium® processor G630T (2 Cores / 2 Threads, 2.30 GHz, 3 MB, Intel® HD Graphics) Intel® Celeron® processor G540T (2 Cores / 2 Threads, 2.10 GHz, 2 MB, Intel® HD Graphics) Intel® Celeron® processor G530T (2 Cores / 2 Threads, 2.00 GHz, 2 MB, Intel® HD Graphics) *with Intel® Turbo Boost Technology (clock speed and will vary depending on workload and other variables)
<b>Operating systems</b>	
<b>Operating system</b>	Windows® 7 Home Basic (EM) 32-bit Windows® 7 Home Premium 64-bit Windows® 7 Professional 32-bit Windows® 7 Professional 64-bit
<b>Operating system compatible</b>	Windows® XP
<b>Operating system notes</b>	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via <a href="http://support.ts.fujitsu.com">http://support.ts.fujitsu.com</a>
<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
<b>Hard disk drives (internal)</b>	SSD SATA III, 256 GB, 2.5-inch SSD SATA III, 128 GB, 2.5-inch HDD SATA II, 7200 rpm, 320 GB, 2.5-inch HDD SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T. 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, 250 GB, 2.5-inch*
<b>Hard disk notes</b>	*Disk imaging software of the customer must be 4k sector size / advanced format ready Up to 18 GB of HDD space is reserved for system recovery
<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 WLAN 802.11 abgn (2x2)
<b>Base unit</b>	ESPRIMO Q510
<b>Mainboard</b>	
<b>Mainboard type</b>	D3173
<b>Formfactor</b>	proprietary
<b>Chipset</b>	Intel® H61
<b>Processor socket</b>	LGA 1155
<b>Processor quantity maximum</b>	1
<b>Memory slots</b>	2 SO DIMM (DDR3, 1333 MHz)
<b>Supported capacity RAM (max.)</b>	16 GB
<b>Memory frequency</b>	1333 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® 82579 LM
<b>Integrated WLAN</b>	1 (optional)
<b>BIOS version</b>	AMI Aptio 4.6

**Mainboard**

BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio codec	Conexant CX20642
Audio features	High Definition audio, 5.1 surround sound, Buzzer

**I/O controller on board**

Serial ATA total	2
Controller functions	Serial ATA II (3 Gbit) NCQ AHCI

**Interfaces**

Audio: line-out / headphone	1
Audio: line-in / microphone	1
USB 2.0 total	7
USB front	2x 2.0
USB rear	4x 2.0
VGA	1 (via DVI to VGA adapter, part of shipment)
DVI	1 (DVI-I)
HDMI	1
Ethernet (RJ-45)	1
Kensington Lock support	1
Multicardreader	1
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

**Graphics on board**

Graphics brand name	Intel® HD Graphics, HD Graphics 2000, HD Graphics 2500, HD Graphics 4000 (depending on CPU)
Shared video memory	up to 1759 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 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 on board**

<b>TFT resolution (HDMI)</b>	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
<b>Graphics features</b>	Dual display support DirectX® 10.1 or DirectX® 11 (depending on CPU) HDCP support Open GL® 3.1 (depending on CPU) Open CL™ 1.1 (depending on CPU)
<b>Graphics notes</b>	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=a95609a6-cda7-45f8-a45d-97b0976f4ed2">http://docs.ts.fujitsu.com/dl.aspx?id=a95609a6-cda7-45f8-a45d-97b0976f4ed2</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 i3-2120T
<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 Lw <sub>ad</sub> (in B) / Workplace related A-weighted sound pressure level Lp <sub>Am</sub> (in dB(A))
<b>Standard noise operation mode: HDD load</b>	3.3 B / 19 dB(A)
<b>Standard noise operation mode: Idle mode</b>	3.3 B / 19 dB(A)
<b>Standard noise operation mode: ODD load</b>	4.7 B / 33 dB(A)
<b>Standard noise operation mode: Office applications 2.0</b>	3.2 B / 18 dB(A)
<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 Lw <sub>ad</sub> (in B); 1B = 10dB
<b>Blue angel noise operation mode: HDD load</b>	3.3 B = 33 dB
<b>Blue angel noise operation mode: Idle mode</b>	3.2 B = 32 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), 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 Q510
<b>Model</b>	MPC2
<b>Europe</b>	CE
	Nordic Swan in progress
<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 link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates/">https://sp.ts.fujitsu.com/sites/certificates/</a>

**Additional Software**

<b>Additional software (preinstalled)</b>	Nero Essentials S (burning software) Fujitsu Recovery (Hard Disk Based Recovery) Norton Internet Security (incl. Firewall) 60 days version Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®. Buy Office 2010 to use the full-featured software.
<b>Additional software (optional)</b>	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 10 Essentials XL

**Compatibility (references)**

	DMI 2.0 PC 2001 WMI 1.5 USB 2.0 SMBIOS
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**Manageability**

<b>Manageability technology</b>	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN)
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**Security**

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

**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	48
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	printed user documentation is bleached in chlorin free process

**Warranty**

Standard Warranty	1 year
Service level	Bring-In / On-Site Service (depending on country)
<b>Maintenance and Support Services - the perfect extension</b>	
Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	3 years
Service Weblink	<a href="http://www.fujitsu.com/fts/services/support/index.html">http://www.fujitsu.com/fts/services/support/index.html</a>

# More information

## Fujitsu platform solutions

In addition to Fujitsu ESPRIMO Q510, 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/](http://www.fujitsu.com/global/services/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu ESPRIMO Q510, 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 resolve issues of environmental energy efficiency through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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