

Data Sheet FUJITSU Desktop ESPRIMO Q520

The Mini with More PC per cm³

The FUJITSU 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 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 ~2.0 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



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

Processor	Intel® Core™ i7-4785T processor (4 Cores / 8 Threads, 2.20 GHz, up to 3.2 GHz, 8 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i5-4590T processor (4 Cores / 4 Threads, 2.00 GHz, up to 3.0 GHz, 6 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i3-4460T processor (4 Cores / 4 Threads, 1.90 GHz, up to 2.7 GHz, 6 MB, Intel® HD Graphics 4600)
	Intel® Core™ i3-4170T processor (2 Cores / 4 Threads, 3.20 GHz, 3 MB, Intel® HD Graphics 4400)
	Intel® Pentium® processor G3260T (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics)
	Intel® Celeron® processor G1840T (2 Cores / 2 Threads, 2.50 GHz, 2 MB, Intel® HD Graphics)
	*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)
Operating systems	
Operating system	Windows 8.1 Pro
	Windows 8.1
	Windows 7 Professional 64-bit Windows 7 Professional 32-bit
Operating system compatible	Windows 10 Pro (license + recovery media only)
Operating system compatible	openSUSE Linux
Memory modules	2 GB (1 module(s) 2 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800, SO DIMM
	4 GB (1 module(s) 4 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800, SO DIMM
	8 GB (1 module(s) 8 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800, SO DIMM
Hard disk drives (internal)	HDD SATA II, 5,400 rpm, 500 GB, 2.5-inch*
	SSD SATA III Premium, 512 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
	SSD SATA III, 256 GB, 2.5-inch, SED
	SSD SATA III, 128 GB, 2.5-inch, SED
	SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch
	HDD SATA III, 5,400 rpm, 320 GB, 2.5-inch, enhanced availability
	HDD SATA III, 7,200 rpm, 500 GB, 2.5-inch
	HDD SATA III, 7,200 rpm, 320 GB, 2.5-inch
	HDD SATA II, 5,400 rpm, 1,000 GB, 2.5-inch*
	HDD SATA II, 5,400 rpm, 320 GB, 2.5-inch*
Hard disk notes	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)
Graphics	DP to DVI-D (single link) Adapter Cable
Drives (optional)	BD Triple Writer SATA Slot-in slim
	DVD Super Multi Slot-in slim
Interface add on cards/components	
(optional)	WI AN 802 11 a/a/n (2x2) and Blustooth (dedicated regions only not for Indonesia)

WLAN 802.11 a/g/n (2x2) and Bluetooth (dedicated regions only, not for Indonesia)

Base unit

Page 2 / 8 www.fujitsu.com/fts/ESPRIMO

	5600000 0500
Base unit	ESPRIMO Q520
Mainboard	
Mainboard type	D3223
Formfactor	proprietary
Chipset	Intel® H81
Processor socket	LGA 1150
Processor quantity maximum	1
Supported capacity RAM (max.)	16 GB
Memory slots	2 SO DIMM (DDR3, 1600 MHz)
Memory frequency	1,600 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	10/100/1,000 MBit/s Intel® I217LM
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 type	On board
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
Multicardreader	1 (SD, MMC)
Interface Module notes	Anytime USB charge functionality
Input device / components	
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, HD Graphics 4400, HD Graphics 4600 (depending on processor)
Shared video memory	up to 1,782 MB
Sharea viaco iliciliory	ap to 1,702 mid

Page 3 / 8 www.fujitsu.com/fts/ESPRIMO

Craphics on hoard	
Graphics on board TET resolution (VCA)	1.02/, v.769 pivol
TFT resolution (VGA)	1,024 x 768 pixel 1,280 x 1,024 pixel
	1,360 x 768 pixel
	1,440 x 900 pixel
	1,600 x 900 pixel
	1,600 x 1,200 pixel
	1,680 x 1,050 pixel 1,920 x 1,080 pixel
TET recolution (DVII)	1,280 x 1,080 pixel
TFT resolution (DVI)	1,360 x 768 pixel
	1,440 x 900 pixel
	1,600 x 900 pixel
	1,680 x 1,050 pixel
	1,920 x 1,080 pixel
TET recolution (DisplayDest)	1,920 x 1,200 pixel
TFT resolution (DisplayPort)	1,280 x 1,024 pixel 1,360 x 768 pixel
	1,440 x 900 pixel
	1,600 x 900 pixel
	1,680 x 1,050 pixel
	1,920 x 1,080 pixel
	1,920 x 1,200 pixel 2,560 x 1,440 pixel
	2,560 x 1,600 pixel
	3,840 x 2,160 pixel (requires Intel® Core™ i3, i5 or i7 processor)
Graphics features	Dual display support
	DirectX® 11.1
	HDCP support Open CL® 1.2
	OpenGL® 4.0
	One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter
Graphics notes	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	
Power efficiency note	power supply efficiency (at 115V/230V; 10% / 20% / 50% / 100% load) : 83% / 87% / 90% / 88%
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	65 W (integrated in system)
Power factor correction/active power	No (meets input harmonic current according EN61000-3-2)
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=5000c21d-e2f0-4511-b9c0-9dd01c57b8a4
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Related Processors for noise	Intel® Core i7-4765T
Standard noise emission	2x2 GB, HDD, ODD, Windows
	According to ISO 7779:2010, ECMA-74
Standard noise operation mode: CPU 50% load	tbd

Page 4 / 8 www.fujitsu.com/fts/ESPRIMO

Noise emission	
Standard noise operation mode: HDD load	3.0 B / 17 dB(A) Bystander ; 19 dB(A) Operator position
Standard noise operation mode: Idle mode	SSD: no noise emmision, 2.5" HDD: 3.0 B / 17 dB(A) Bystander; 17 dB(A) Operator position
Standard noise operation mode: ODD load	4.5 B / 31 dB(A) Bystander ; 34 dB(A) Operator position
Standard noise operation mode: Office applications 2.0	SSD: no noise emmision, 2.5" HDD: 3.0 B / 17 dB(A) Bystander; 18 dB(A) Operator position
Blue angel noise emission according certification	According to ISO 7779:2010, ECMA-74 for max. possible configuration
Blue angel noise operation mode: HDD load	3.2 B = 32 dB
Blue angel noise operation mode: Idle mode	3.1 B = 31 dB
Blue angel noise operation mode: ODD load	4.7 B = 47 dB
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	185 x 191 x 58.7 mm
	7.28 x 7.52 x 2.31 inch
Operating position	Vertical / horizontal (no feet needed)
VESA mount	integrated (100mm), applicable for selected monitors only, additional mounting kit for specific monitors optional
Weight	1.6 kg
Weight (lbs)	3.53 lbs
Weight notes	Weight may vary depending on actual configuration (without ODD)
Operating ambient temperature	10 - 35 °C (50 - 95 °F)
Operating relative humidity	5 - 85 % (relative humidity)
Compliance	
Product	ESPRIMO Q520
Model	MPC2
Germany	TÜV GS Blauer Engel / Blue Angel
Europe	CE
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) EPEAT® Gold (dedicated regions) ENERGY STAR® 6.0 (dedicated regions)
Compliance notes	This product is free of polyvinyl chloride (PVC) when ordered with the optional PVC free power cord
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates
Additional Software	
Additional software (preinstalled)	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)
Additional software (optional)	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

Page 5 / 8 www.fujitsu.com/fts/ESPRIMO

Managonhility	
Manageability Manageability technology	Dock Hadata Driver management
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 components	Inventory Management
	BIOS Management Driver Management
	Security Management
	Alarm Management
Supported standards	DMI (Desktop Management Interface)
	SMBIOS (System Management BIOS)
	PXE (Preboot Execution Environment) WMI (Windows Management Instrumentation)
	WBEM (Web Based Enterprise Management)
	CIM (Common Information Model)
Manageability link	http://www.fujitsu.com/fts/manageability
Security	
Physical Security	Kensington Lock support Housing Lock Plate (to use with Kensington lock)
System and BIOS Security	Boot sector virus protection
system and bios secure,	Write protect option for the Flash EPROM
	Control of external interfaces
	External USB ports can be disabled separately
	Embedded security (TPM 1.2) (optional)
User Security	User and supervisor BIOS password Hard disk password
	Access protection via external SmartCard reader (optional)
Serviceability	
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 inlouded 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;
	documentation is bleached in chlorin nee process,
Warranty	
Warranty period	1 year (depending on country)
Warranty type	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	http://support.ts.fujitsu.com/warranty
Product Support Services - the perfec	
Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/services/support

Page 6 / 8 www.fujitsu.com/fts/ESPRIMO

Recommended Accessories

USB 3.0 Port Replicator PR08



The FUJITSU USB 3.0 Port Replicator PR08 is the perfect solution for hot-desk Order Code: environments. It connects your notebook to all of your peripherals with a single USB 3.0 plug. The highlight is the internal powerful Display Link chipset that offers an excellent graphic performance.

Display B22W-7 LED



The FUJITSU Display B22W-7 LED offers best ergonomics and usability for intensive office use with a 4-in-1 stand.

Order Code: S26361-K1472-V140

Display B24W-7 LED



The FUJITSU B24W-7 LED Display with excellent ergonomics makes intensive Order Code: office work extremely comfortable. This highly reliable display offers superb S26361-K1497-V140 usability and power-saving features to help reduce your labor as well as energy costs. With wide viewing angle technology, flexible connectivity, and easy manageability, the FUJITSU B24W-7 LED Display can help you improve productivity.

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

UC&C USB Headset Stereo H650e



The UC&C USB Headset Stereo H650e is the ultimate in style and functionality. Long, uncomfortable work calls are a thing of the past thanks to the cushioned ear pads and crystal clear sound. Adjustable headband and microphone provides the perfect fit for everyone. Optimized for Microsoft® Lync™ the headset displays a red 'in-call' LED to let your co-workers know when you're available, thus helping to boost office productivity.

Order Code: S26391-F7139-L10

Wireless Keyboard Set LX901



The Wireless Keyboard LX901 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set 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-K565-L4** (**: Country specific variation)

Page 7 / 8 www.fujitsu.com/fts/ESPRIMO

More information

Fujitsu OPTIMIZATION Services

In addition to FUJITSU Desktop 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/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about FUJITSU Desktop ESPRIMO Q520, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

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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/qlobal/about/environment



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