Data Sheet
FUJITSU Desktop ESPRIMO Q956

The Mini with More PC per cm³

The FUJITSU ESPRIMO Q956 mini PC provides excellent performance, high energy efficiency and manageability. The Intel® Core™ processor and Intel® vPro™ technology combined with the DeskView manageability suite support professional computing and sophisticated manageability. With its innovative Low Power Active Mode feature you are ready for instant communication in the modern office. Experience a cleaner, quieter workplace with Zero Noise PC function and the small footprint of the FUJITSU ESPRIMO Q956.



An elegant mini PC for the modern office environment
Eye-catching exclusive modern design
- Fully equipped PC with a volume of ~2.0 liters - based on standard desktop technology

Always Available Office PC - stay connected and save power
Be ready for instant communication and significantly reduce your energy bill
- Innovative Low Power Active Mode and highly-efficient integrated power-supply

Unleash the power
Latest Intel® technology to support your challenging business applications
- 6th generation Intel® Core™ processor family

Sophisticated system management
Simple system administration even in complex IT infrastructures
- Intel® vPro™ technology (depending on processor) and DeskView manageability suite

Superb usability
Efficient working environment due to a tidy desk
- Horizontal or vertical operations, an integrated VESA mount and a service door for easy upgrade of major components

Components

Processor	Intel® Core™ i7-6700T processor (4 Cores / 8 Threads, 2.80 GHz, up to 3.6 GHz, 8 MB, Intel® HD Graphics 530) *
	Intel® Core™ i5-6500T processor (4 Cores / 4 Threads, 2.50 GHz, up to 3.1 GHz, 6 MB, Intel® HD Graphics 530) *
	Intel® Core™ i3-6100T processor (2 Cores / 4 Threads, 3.20 GHz, 3 MB, Intel® HD Graphics 530)
	Intel® Pentium® processor G4400T (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics 510)
	Intel® vPro™ Logo with Intel® Core i5 and Core i7 processors *with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)
Operating systems	
Operating system	Windows 10 Pro Windows 10 Home 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) openSUSE Linux
Microsoft OS support information	This system receives full support from Microsoft with Windows 10/Windows 10 Pro only. For any other Microsoft OS installed, this device has limited support from Microsoft. For more information, please see Microsoft's Support Lifecycle FAQ.
Memory modules	4 GB (1 module(s) 4 GB) DDR4, non-ECC, 2,133 MHz, SO DIMM
	8 GB (1 module(s) 8 GB) DDR4, non-ECC, 2,133 MHz, SO DIMM
	16 GB (1 module(s) 16 GB) DDR4, non-ECC, 2,133 MHz, SO DIMM
Hard disk drives (internal)	SSD PCIe 512 GB M.2 Highend
	SSD PCIe 256 GB M.2 Highend
	SSD PCIe 128 GB M.2 Highend
	SSD SATA III 512GB M.2
	SSD SATA III 256GB M.2
	SSD SATA III 128 GB M.2
	SSD SATA III, 512 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 512 GB, 2.5-inch, SED
	SSD SATA III, 256 GB, 2.5-inch, SED
	SSD SATA III, 128 GB, 2.5-inch, SED
	SSD SATA III, 128 GB, 2.5-inch
	SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch
	HDD SATA III, 7,200 rpm, 1000 GB, 2.5-inch, enhanced availability
	HDD SATA III, 7,200 rpm, 500 GB, 2.5-inch, enhanced availability
	HDD SATA III, 7,200 rpm, 500 GB, 2.5-inch
	HDD SATA II, 5,400 rpm, 1,000 GB, 2.5-inch*
	HDD SATA II, 5,400 rpm, 500 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 ultra slim (tray)
	DVD Super Multi ultra slim (tray)

Interface add on cards/components (optional)	
	M.2 WLAN 802.11ac (2x2) and BT 4.1 (dedicated regions only, up to BT 4.2 depending on OS version)

Base unit

Base unit	ESPRIMO Q956
Mainboard	
Mainboard type	D3413
Formfactor	proprietary
Chipset	Intel® Q170
Processor socket	LGA 1151
Processor quantity maximum	1
Supported capacity RAM (max.)	32 GB
Memory slots	2 DIMM (DDR4)
Memory frequency	2,133 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® I219LM
Integrated WLAN	1 (optional with Bluetooth together)
BIOS version	AMI Aptio V
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI) CSM (Compatibility Support Module)
Audio type	On board
Audio codec	Realtek ALC671
Audio features	Internal speaker supports audio playback (optional), High Definition audio
I/O controller on board	
Serial ATA total	2
thereof SATA III	2
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI
Interfaces	
Audio: line-out / headphone	2
Audio: line-in / microphone	1
USB 2.0 total	2
USB 3.0 total	6
USB front	2x 3.0
USB rear	2x 2.0 and 4x 3.0
USB internal	1
VGA	optional: via external active adapter cable
DisplayPort	2
DVI	1 (DVI-D)
Serial (RS-232)	1 9pin, 16 byte FIFO, 16550 compatible
Mouse / Keyboard (PS/2)	0/1 optional (with PC on/off function on Pin6)
Ethernet (RJ-45)	1
Interface Module notes	Anytime USB charge functionality

Input device / components	
Input devices (optional)	Keyboard Mouse KBPC PX ECO Mouse M440 ECO
Drive bays	
Drive bays total	3
2.5-inch internal bays	1
5.25-inch external bays	1
Drive bay notes	slim tray for 5.25"; M.2-2280 for SSD
M.2-2280	1 x 1 on mainboard (for PCIe or SATA SSD modules)
Mini PCI slots	
M.2-2230	on mainboard for WLAN module
Graphics on board	
Graphics brand name	Intel® HD Graphics 510, Intel® HD Graphics 530
Shared video memory	up to 1,782 MB
TFT resolution (DVI)	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
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 4,096 x 2,304 pixel
Graphics features	Support for up to three independent displays DirectX® 12 HDCP support OpenCL™ 2.0 (requires Intel® Core™ i3, i5 or i7 processors) OpenGL® 4.4 One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter DisplayPort interface supports Ver. 1.2 incl. Multi-Stream DVI-D interface supports audio output for HDMI monitors
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 230V; 10% / 20% / 50% / 100% load) : 90% / 90% / 92% / 92%
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)
Power consumption	
Power consumption note	See white paper Energy Consumption

Power consumption	
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=94e60bbb-bc3b-4a9a-9ef2-03b5596c7aab
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Related Processors for noise	Intel® Core™ i5 6600T
Standard noise emission	According to ISO 7779:2010, ECMA-74 2x4 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
Standard noise operation mode: CPU 50% load	3.4 B / 21 dB(A) Bystander; 24 dB(A) Operator position
Standard noise operation mode: HDD load	3.3 B / 20 dB(A) Bystander; 21 dB(A) Operator position
Standard noise operation mode: Idle mode	3.1 B / 18 dB(A) Bystander; 19 dB(A) Operator position
Standard noise operation mode: ODD load	4.3 B / 30 dB(A) Bystander; 34 dB(A) Operator position
Standard noise operation mode: Office applications 2.0	3.2 B / 18 dB(A) Bystander; 19 dB(A) Operator position
Blue angel noise emission according certification	According to ISO 7779:2010, ECMA-74 for max. possible configuration
Blue angel noise notes / description	A-weighted sound power level Lwad (in B); 1B = 10dB
Blue angel noise operation mode: HDD load	3.3 B = 33 dB (A)
Blue angel noise operation mode: Idle mode	3.1 B = 31 dB (A)
Blue angel noise operation mode: ODD load	4.5 B = 45 dB (A)
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	186 x 191 x 59 mm 7.32 x 7.49 x 2.30 inch
Operating position	Vertical / horizontal (no feet needed)
VESA mount	integrated (100mm & 75mm), 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)

Product	ESPRIMO Q956
Model	MPC3
Germany	GS (planned)
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) (planned) ENERGY STAR® 6.1 (dedicated regions)
China	CCC (planned) China RoHS
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)	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

Manageability

Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) WoL (Wake on LAN) iAMT 11.0 (depending on processor)
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 Intrusion switch (optional) Eye for padlock Housing Lock Spring (to use with Kensington lock)
System and BIOS Security	Embedded security (TPM 2.0) EraseDisk (optional) Boot sector virus protection Write protect option for the Flash EPROM Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces
User Security	User and supervisor BIOS password Hard disk password Access protection via internal SmartCard reader (optional) Access protection via external SmartCard reader (optional) Workplace Protect (secure authentication solution)
Workplace Embedded Tools	Auto BIOS Update via Fujitsu Server Auto BIOS Update via customer server (optional) Easy PC Protection (optional) Easy Restore (optional)
Security notes	Choose people over passwords. Protect your business with PalmSecure technology http://choosepeopleoverpasswords.global.fujitsu.com/

Miscellaneous	
	Keyboard on (special Fujitsu keyboard required and PS/2 option) Thermal management Low Power Active Mode Extended lifetime
Serviceability	
	EasyFix EasyChange for HDD EasyChange for optical drives
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 inlcuded 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	
Warranty period	3 years (depending on country)
Warranty type	Bring-In / Onsite Service (for countries within region EMEIA, for all other countries depending on local regulations)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Product Support Services - the perfect extension	
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

Recommended Accessories

MicroSaver Slim		The Fujitsu Kensington MicroSaver slim features the patented T-Bar locking mechanism with carbon tempered steel core cable and an external braided steel sheath. The MicroSaver slim is available with Kensington Master Access. This security solution allows you to manage and maintain a limitless number of locks with a master key.	Order Code: S26361-F1650-L200
Universal Monitor Stand		Save desk space without compromising performance or productivity with the Universal Monitor Stand that brings together a FUJITSU Desktop ESPRIMO Q mini PC or FUJITSU Thin Client FUTRO and a VESA compatible FUJITSU Display. For optimum ergonomics the height and tilt angle of the display can be adjusted, helping you to stay productive and comfortable, whilst hassle-free installation of the devices on the stand makes the life of your IT department easier.	Order Code: S26361-F2601-L700
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 office work extremely comfortable. This highly reliable display offers superb 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.	Order Code: S26361-K1497-V140
Blue LED Mouse GL9000		Blue LED Mouse GL9000 comes in a slim design with proven Fujitsu engineering quality. The state-of-the-art blue LED sensor enables ultra precise switchable resolution at 1,000, 1,500 and 2,000 dpi. Blue LED Mouse GL9000 makes your life easier because it's tailor-made for right handed users. It just feels great in your hand.	Order Code: S26381-K438-L100
UC&C USB Value Headset		The FUJITSU UC&C USB Value Headset is a lightweight bi-aural full-size stereo headset with high wearing comfort. This Lync-tested USB-Headset has an appropriate Inline-Controller which supports easy call management. A noise cancelling microphone facilitates undisturbing clear phone calls.	Order Code: S26391-F7139-L20
Keyboard KB900		The KB900 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB900 the ideal input device for any PC or Notebook user. If you accidently spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.	S26381-K560-L4** (**: Country specific variation)

More information

Fujitsu OPTIMIZATION Services

In addition to FUJITSU Desktop ESPRIMO Q956, 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 Q956, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
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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