Fujitsu recommends Windows 10 Pro.

# 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<br>*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)<br>**6th generation Intel® processor |
| **Operating systems** | |
| **Operating system** | Windows 10 Pro. Fujitsu recommends Windows 10 Pro.<br>Windows 10 Home<br>Windows 7 Professional pre-installed (available through downgrade rights from Windows 10 Pro) |
| **Operating system compatible** | Windows 8.1 Pro (available through downgrade rights from Windows 10 Pro)<br>openSUSE Linux |
| **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)** | PCIe-SSD, 256 GB Highend, M.2 module |
| | PCIe-SSD, 1024 GB Highend, M.2 module |
| | PCIe-SSD, 512 GB Highend, M.2 module |
| | PCIe-SSD, 256 GB Highend, M.2 module |
| | SSD SATA, 512 GB, M.2 module |
| | SSD SATA, 256 GB, M.2 module |
| | SSD SATA, 128 GB, M.2 module |
| | 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 |
| | SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch |
| | 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* |
| | HDD SATA III, 7,200 rpm, 1000 GB, 2.5-inch, enhanced availability |
| **Hard disk notes** | Up to 20 GB of HDD space is reserved for system recovery<br>SSHD (Solid State Hard Disk, Hybrid drive)<br>SSD (Solid State Disk)<br>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

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|---|---|
| **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<br>Recovery BIOS<br>Unified Extensible Firmware Interface (UEFI)<br>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)<br>NCQ<br>AHCI |
| **Interfaces** | |
| **Audio: line-out** | 1 |
| **Front audio: microphone** | 1 |
| **Front audio: headphone** | 1 |
| **USB 2.0 total** | 2 |
| **USB 3.1 Gen1 (USB 3.0) total** | 6 |
| **USB front** | 2x USB 3.0 |
| **USB rear** | 2x USB 2.0 and 4x USB 3.0 |
| **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<br>Mouse<br>KBPC PX ECO<br>Mouse M440 ECO |
| **Drive bays** | |
| **Drive bays total** | 3 |

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| **Drive bays** | |
| 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<br>1,360 x 768 pixel<br>1,440 x 900 pixel<br>1,600 x 900 pixel<br>1,680 x 1,050 pixel<br>1,920 x 1,080 pixel<br>1,920 x 1,200 pixel |
| TFT resolution (DisplayPort) | 1,280 x 1,024 pixel<br>1,360 x 768 pixel<br>1,440 x 900 pixel<br>1,600 x 900 pixel<br>1,680 x 1,050 pixel<br>1,920 x 1,080 pixel<br>1,920 x 1,200 pixel<br>2,560 x 1,440 pixel<br>2,560 x 1,600 pixel<br>3,840 x 2,160 pixel<br>4,096 x 2,304 pixel |
| Graphics features | Support for up to three independent displays<br>DirectX® 12<br>HDCP support<br>OpenCL™ 2.0 (requires Intel® Core™ i3, i5 or i7 processors)<br>OpenGL® 4.4<br>One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter<br>DisplayPort interface supports Ver. 1.2 incl. Multi-Stream<br>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)<br>Tested resolutions, depending on display type additional resolutions and frequencies possible<br>Shared memory depending on main memory size and operating system<br>Resolution (color depth up to 32 Bit/pixel)<br>For TFT we recommend using 60Hz |
| **Electrical values** | |
| Power efficiency note | power supply efficiency (at 230V; 2 Watt/ 10% / 20% / 50% / 100% load) : > 85%/ 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 |
| 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 |

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| **Noise emission** | |
| **Standard noise emission** | According to ISO 7779:2010, ECMA-74<br>2x4 GB, HDD, ODD, Windows<br>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<br>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<br>7.32 x 7.49 x 2.30 inch |
| **Operating position** | Vertical / horizontal (no feet needed) |
| **VESA mount** | integrated (100 mm & 75 mm), 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<br>cCSAus |
| **Global** | RoHS (Restriction of hazardous substances)<br>WEEE (Waste electrical and electronic equipment)<br>Microsoft Operating Systems (HCT / HCL entry / WHQL)<br>EPEAT® Gold (dedicated regions)<br>ENERGY STAR® 6.1 (dedicated regions) |
| **China** | CCC<br>China RoHS |
| **Compliance notes** | This product is free of polyvinyl chloride (PVC) when ordered with the optional PVC free power cord |
| **Compliance link** | https://sp.ts.fujitsu.com/sites/certificates |
| **Additional Software** | |
| **Additional software (preinstalled)** | Adobe® Reader® (pdf reader)<br>McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version)<br>Win7: Fujitsu Recovery (hard disk based recovery)<br>Win8: Microsoft Push Button Recovery (hard disk based recovery)<br>Microsoft Office (buy license to activate the pre-installed Microsoft Office) |

Fujitsu recommends Windows 10 Pro.

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|---|---|
| **Additional Software** | |
| **Additional software (optional)** | Recovery DVD for Windows®<br>Drivers & Utilities DVD (DUDVD)<br>CyberLink PowerDVD BD (playback software for Blu-ray Disc™)<br>CyberLink PowerDVD DVD (playback software for DVD)<br>Nero Essentials XL |
| **Manageability** | |
| **Manageability technology** | DeskUpdate Driver management<br>PXE 2.1 Boot code<br>Wake up from S5 (off mode)<br>Intrusion switch (optional)<br>WoL (Wake on LAN)<br>iAMT 11.0 (depending on processor) |
| **Manageability software** | DeskView Client<br>DeskView Instant BIOS Management |
| **DeskView components** | BIOS Management incl. Security<br>Inventory Management<br>Driver Management<br>Alarm Management |
| **Supported standards** | DMI (Desktop Management Interface)<br>SMBIOS (System Management BIOS)<br>PXE (Preboot Execution Environment)<br>WMI (Windows Management Instrumentation)<br>WBEM (Web Based Enterprise Management)<br>CIM (Common Information Model) |
| **Manageability link** | http://www.fujitsu.com/fts/manageability |
| **Security** | |
| **Physical Security** | Kensington Lock support<br>Intrusion switch (optional)<br>Eye for padlock<br>Housing Lock Spring (to use with Kensington lock), (optional) |
| **System and BIOS Security** | Embedded security (TPM 2.0)<br>EraseDisk (optional)<br>Boot sector virus protection<br>Write protect option for the Flash EPROM<br>Control of all USB interfaces<br>External USB ports can be disabled separately<br>Control of external interfaces |
| **User Security** | User and supervisor BIOS password<br>Hard disk password<br>Access protection via internal SmartCard reader (optional)<br>Access protection via external SmartCard reader (optional)<br>Embedded palm vein sensor (optional)<br>Workplace Protect (secure authentication solution) |
| **Workplace Embedded Tools** | Auto BIOS Update via Fujitsu Server<br>Auto BIOS Update via customer server (optional)<br>Easy PC Protection (optional) |
| **Security notes** | Choose people over passwords. Protect your business with PalmSecure technology<br>http://choosepeopleoverpasswords.global.fujitsu.com/ |
| **Miscellaneous** | |
| | Keyboard on (special Fujitsu keyboard required and PS/2 option)<br>Thermal management<br>Low Power Active Mode<br>Extended lifetime |
| **Serviceability** | |
| | EasyFix<br>EasyChange for HDD<br>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

| | | | |
|---|---|---|---|
| | | | Order Code: S26361-F1650-L202 |
| **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

Green Policy Innovation

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Contact
FUJITSU Technology Solutions GmbH
Website: www.fujitsu.com/fts
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