

Data Sheet FUJITSU Desktop ESPRIMO P956/E90+

Excellent Performance, Expandability and Efficiency

The FUJITSU ESPRIMO P956/E90+ Desktop provides highest manageability, performance and expandability. Its low noise design supports a pleasant working environment, and the 90% efficient power supply will reduce your energy bills. With its innovative Low Power Active Mode feature you are ready for instant communication in the modern office. The use of a common software load within the product series ensures perfect infrastructure compatibility. On retirement, the Fujitsu distinctive EraseDisk function securely wipes your data.

Quiet

Pleasant working environment due to an extremely quiet system

■ Innovative hardware design, optimized cooling concept ensures silent operations

Always Available Office PC - stay connected and save power

Be ready for instant communication and a significantly reduced energy bill

■ Innovative Low Power Active Mode and highly-efficient integrated power-supply

Energy efficiency and high performance

Low power consumption combined with high levels of performance

■ 6th generation Intel® Core™ processor family, a switched monitor outlet and a power supply with 90% efficiency

System management

Simple system administration for complex IT infrastructures

■ Intel® vPro™ technology (depending on processor) and DeskView manageability suite

Green technology

Another example of the Fujitsu commitment to environmental protection and sustainability

 Halogen-free printed circuit board of mainboard, sophisticated product concept for the entire lifecycle









Components

Processor	Intel® Core™ i7-6700 processor (4 Cores / 8 Threads, 3.40 GHz, up to 4.0 GHz, 8 MB, Intel® HD Graphics 530) *	
	Intel® Core™ i5-6600 processor (4 Cores / 4 Threads, 3.30 GHz, up to 3.9 GHz, 6 MB, Intel® HD Graphics 530) *	
	Intel® Core™ i5-6500 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 530) *	
	Intel® Core™ i3-6100 processor (2 Cores / 4 Threads, 3.70 GHz, 3 MB, Intel® HD Graphics 530)	
	Intel® Pentium® processor G4500 (2 Cores / 2 Threads, 3.50 GHz, 3 MB, Intel® HD Graphics 530)	
	Intel® Pentium® processor G4400 (2 Cores / 2 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 510)	
	Intel® Celeron® processor G3900 (2 Cores / 2 Threads, 2.80 GHz, 2 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) Intel® Smart Response Technology supported by Intel® Core™ i3, i5 and i7 processors	
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, unbuffered, non-ECC, 2,133 MHz, UDIMM	
	8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM	
	16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM	
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 256GB M.2 Mainstream	
	SSD SATA III 128 GB M.2 Mainstream	
	SSD SATA III, 512 GB Mainstream, 2.5-inch	
	SSD SATA III, 256 GB Mainstream, 2.5-inch	
	SSD SATA III, 128 GB Mainstream, 2.5-inch	
	SSD SATA III, 120 GB Mainstream, 2.5-inch, SED	
	SSD SATA III, 256 GB Mainstream, 2.5-inch, SED	
	SSD SATA III, 128 GB Mainstream, 2.5-inch, SED	
	SSD SATA III, 128 GB Entry, 2.5-inch	
	SSHD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch	
	SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch	
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical	
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch	
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch	
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-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)	
	CON (Colid Charta Dick)	

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Graphics	VGA Extension Card
	NVIDIA® NVS™ 315, 1 GB
	NVIDIA® GeForce® GTX 745 2 GB FH, 2 GB
	NVIDIA® GeForce® 605 DisplayPort 1GB FH, 1 GB
	LFH59/ 2x DVI-I adapter cable
	LFH59/ 2x DP adapter cable
	DVI-I to VGA Adapter
	DP to DVI-D (single link) Adapter Cable
	AMD® Radeon R9 255 FH, 2 GB
Drives (optional)	BD Triple Writer SATA ultra slim (tray)
	DVD-ROM
	DVD Super Multi
	DVD Super Multi ultra slim (tray)
	MultiCard Reader 24in1 USB 2.0 3.5"
Interface add on cards/components	
(optional)	
	WLAN 802.11ac (2x2) PCIe x1 FH and Bluetooth 4.1 (dedicated regions only)
	WLAN 802.11ac (2x2) PCIe x1 FH (dedicated regions only)
	Parallel Interface
	Gigabit Ethernet PCle x1, DS
	eSATA Interface
	Dual serial card PCIe x1

Base unit

Base unit	ESPRIMO P956/E90+	
Mainboard		
Mainboard type	D3402	
Formfactor	μATX	
Chipset	Intel® Q170	
Processor socket	LGA 1151	
Processor quantity maximum	1	
Supported capacity RAM (max.)	64 GB	
Memory slots	4 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	
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, 5.1 surround sound	
I/O controller on board		
Serial ATA total	5	
thereof SATA III	5	
thereof eSATA	2	

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I/O controller on board		
Controller functions	Serial ATA III (6 Gbit)	
Controller functions	NCQ	
	AHCI	
	RAID 0/1/5/10	
Interfaces		
Audio: line-in	1	
Audio: line-in / microphone	1	
Audio: line-out	1	
Front audio: microphone	1	
Front audio: headphone	1	
USB 2.0 total	6	
USB 3.0 total	6	
USB front	2x USB 2.0; 2x USB 3.0	
USB rear	2x USB 2.0; 4x USB 3.0	
USB internal	2x USB 2.0	
VGA	optional: via adapter card	
DisplayPort	2	
DVI	1 (DVI-D)	
Serial (RS-232)	1 ; optional: 2nd serial port (9pin, 16 byte FIFO, 16550 compatible)	
Mouse / Keyboard (PS/2)	2	
Ethernet (RJ-45)	1	
Parallel	1 (optional) (25pin with EPP and ECP)	
eSATA	1 (optional)	
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	7	
3.5-inch internal bays	2	
3.5-inch external bays	2	
5.25-inch external bays	2	
M.2-2280	1 x on mainboard (for PCIe or SATA SSD modules)	
Slots		
PCI-Express 3.0 x16	1 x (312 mm / 12.29 inch) Full height	
PCI-Express 2.0 x4 (mech. x16)	1 x (312 mm / 12.29 inch) Full height	
PCI-Express x1	2 x (170 mm / 6.7 inch) Full height	
Graphics on board		
Graphics brand name	Intel® HD Graphics 510, Intel® HD Graphics 530	
Shared video memory	up to 1,782 MB	
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	

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tion (color depth up to 32 Bit/pixel)	
we recommend using 60Hz	
supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%	
240 V	
50 Hz - 60 Hz	
264 V	
63 Hz	
active Switched	
ed	
See white paper Energy Consumption	
locs.ts.fujitsu.com/dl.aspx?id=bda9e2eb-1afd-4aab-85eb-32ff30feef77	
ite paper Energy Consumption	
Core™ i7 6700	
2x4 GB, HDD, ODD, Windows According to ISO 7779:2010, FCMA-74	
ng to ISO 7779·2010 FCMA-74	
ng to ISO 7779:2010, ECMA-74 hted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))	
ng to ISO 7779:2010, ECMA-74 hted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) 21 dB(A) Bystander; 26 dB(A) Operator position	
hted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))	

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Noise emission		
Standard noise operation mode: ODD load	4.4 B / 31 dB(A) Bystander; 34 dB(A) Operator position	
Standard noise operation mode: Office applications 2.0	3.3 B / 19 dB(A) Bystander; 21 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	3.4 B = 34 dB (A)	
Blue angel noise operation mode: Idle mode	3.4 B = 34 dB (A)	
Blue angel noise operation mode: ODD load	4.4 B = 44 dB (A)	
Dimensions / Weight / Environmental		
Dimensions (W x D x H)	175 x 419 x 395 mm	
	6.89 x 16.5 x 15.56 inch	
Operating position	Vertical	
Weight	11 kg	
Weight (lbs)	24.25 lbs	
Weight notes	Actual weight may vary depending on configuration	
Operating ambient temperature	10 - 35 ℃ (50 - 95 °F)	
Operating relative humidity	5 - 85 % (relative humidity)	
Product	ESPRIMO P956/E90+	
Model	MISW	
Germany	TÜV GS	
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) ENERGY STAR® 6.1 (dedicated regions) EPEAT® Gold (dedicated regions)	
China	CCC (planned) China RoHS	
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)	

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Manageability		
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)	
Supported Standards	SMBIOS (System Management BIOS)	
	PXE (Preboot Execution Environment)	
	WMI (Windows Management Instrumentation)	
	WBEM (Web Based Enterprise Management) CIM (Common Information Model)	
<u> </u>	CIM (COMMON INFORMATION MODEL)	
Security Develop Converted	Vencin along Lordy augusts	
Physical Security	Kensington Lock support Eye for padlock	
	Integrated cabinet lock (optional)	
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 external SmartCard reader (optional)	
	Access protection via internal SmartCard reader (optional) Workplace Protect (secure authentication solution)	
Workplace Embedded Tools	Auto BIOS Update via Fujitsu Server	
Workplace Embedded 10013	Auto BIOS Update via customer server (optional)	
	Easy PC Protection (optional)	
	Easy Restore (optional)	
Miscellaneous		
	Keyboard on (Special Fujitsu keyboard required)	
	Thermal management	
	Low Power Active Mode Extended lifetime	
c t like	Extended metime	
Serviceability	EagyEiv	
	EasyFix EasyChange for HDD	
	EasyChange for optical drives	
Packaging information		
Packaging dimension (mm)	516 x 278 x 562 mm	
Packaging dimension (inch)	20.31 x 10.94 x 22.13 inch	
Max. quantity / pallet	24	
Material - Weight (g) Carton	1280 g	
Material - Weight (lbs) Carton	2.82 lbs	
Material - Weight (g) EPS / PS	190 g	
Material - Weight (lbs) EPS / PS	0.42 lbs	
Material - Weight (g) PE	60 g	
Material - Weight (lbs) PE	0.13 lbs	
Packaging notes	printed user documentation is bleached in chlorine free process	
Wassanki		
Warranty Warranty period	3 years (depending on country)	
Warranty period	3 years (depending on country) Bring-In / Onsite Service (for countries within region EMEIA, for all other countries depending on local regulations)	
Warranty type	oning in a onsite service froi countries within region Livilia, for all other countries depending on local regulations)	

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Warranty	
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Product Support Services - the perfe	
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

Display B23T-7 LED	PARTIN THE
	E S

The FUJITSU B23T-7 LED Display with excellent ergonomics makes intensive Order Code: office work extremely comfortable. S26361-K1496-V140

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 B23T-7 LED Display can help you improve productivity.

Display P24W-7 LED



If you're a pixel, color and performance-hungry professional using demanding applications, the FUJITSU P24W-7 LED Display is the perfect choice. The display provides outstanding picture performance thanks to a cutting-edge graphic panel. It also boasts unique and innovative features such as our patent-applied Presence Sensor technology and the Always Available Powered USB Hub.

Order Code: S26361-K1498-V140

Mouse M440 ECO



Fujitsu Mouse M440 ECO is made from 100% bio material and has a completely PVC free cable. The elegant M440 ECO works on nearly every surface and follows all your hand movements smoothly and precisely. It features two main buttons and as well as a scroll wheel providing comfortable computing to both right and left-handed users.

Order Code: S26381-K450-L200

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

HS E2000 Communicator Headset



The Fujitsu HS E2000 Communicator headset allows you to use your personal computer for Voice over IP (VoIP) in stereo audio quality. This premium headset is designed to provide superb audio quality and comfort for the telephony, internet chat, speech recognition, video conferencing and multimedia applications.

Order Code: \$26391-F7139-L5

Keyboard KBPC PX ECO



Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The S26381-K341-L1** (**: keyboard is made out of 45% renewable raw material and comes with a PVC country specific variation) free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras.

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More information

Fujitsu OPTIMIZATION Services

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