

# 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 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 Suppo 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 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, 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, 500 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 diek notoe	·			
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)			

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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 BT 4.1 (dedicated regions only, up to BT 4.2 depending on OS version)				
	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	μΑΤΧ			
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 PCle 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
60 Hz
264 V
63 Hz
ed
ite paper Energy Consumption
locs.ts.fujitsu.com/dl.aspx?id=bda9e2eb-1afd-4aab-85eb-32ff30feef77
ite paper Energy Consumption
Core™ i7 6700
, HDD, ODD, Windows
ng to ISO 7779·2010 FCMA-74
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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 step Leafy support			
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 regulat			
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 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

Display B23T-7 LED		The FUJITSU B23T-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 B23T-7 LED Display can help you improve productivity.	Order Code: S26361-K1496-V140
Display P24W-7 LED	Agree and Agree	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

### Keyboard KBPC PX ECO



Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The 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

In addition to FUJITSU Desktop ESPRIMO P956/ E90+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

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Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

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