FUJITSU

Data Sheet FUJITSU Desktop ESPRIMO D956/E90+

Combines High Efficiency with Manageability

The FUJITSU ESPRIMO D956/E90+ Desktops provide 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 and optimized cooling concept ensures silent operations

Always Available Office PC - stay connected and save power

- Be ready for instant communication and a significantly reduced your 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) *			
10003301	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 ^{m} 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.			
Operating system notes	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 512GB M.2			
	SSD SATA III 256GB M.2			
	SSD SATA III 22000 M.2 SSD SATA III 128 GB M.2			
	SSD SATA III 720 GB M.2 SSD SATA III, 512 GB, 2.5-inch			
	SSD SATA III, 512 GB, 2.5-inch			
	SSD SATA III, 250 GB, 2.5-inch SED			
	SSD SATA III, 256 GB, 2.5-inch, SED			
	SSD SATA III, 250 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, 7,200 Ipin, 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*			

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)	
VGA Extension Card	
NVIDIA® NVS™315 LP, 1 GB	
NVIDIA® GeForce® GTX 745 2 GB LP, 2 GB	
NVIDIA® GeForce® 605 DisplayPort 1GB LP, 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	
BD Triple Writer SATA ultra slim (tray)	
DVD Super Multi ultra slim (tray)	
MultiCard Reader 24in1 USB 2.0 3.5"	
WLAN 802.11ac (2x2) PCIe x1 LP and BT 4.1 (dedicated regions only, up to BT 4.2 depending on OS version)	
WLAN 802.11ac (2x2) PCIe x1 LP (dedicated regions only)	
Parallel Interface	
Gigabit Ethernet PCIe x1, DS	
eSATA Interface	

Base unit

Base unit	ESPRIMO D956/E90+			
Mainboard				
Mainboard type	D3432			
Formfactor	proprietary			
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			

I/O controller on board					
thereof eSATA	2				
Controller functions	Serial ATA III (6 Gbit)				
	NCQ				
	AHCI RAID 0/1/5/10				
Interfaces	1				
Audio: line-in	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					
3.5-inch internal bays					
3.5-inch external bays	1				
5.25-inch external bays	1				
Drive bay notes	5,25" bay: for slim optical disc drive only; internal 3.5" bay: 1x 3.5" drive (screwless) or 1x 2.5" drive (screws) or optional via adapter for 1x or 2x 2.5" drives (screws); external 3.5" bay: optional as internal 3.5" bay (screws)				
M.2-2280	1 x on mainboard (for PCIe or SATA SSD modules)				
Slots					
PCI-Express 3.0 x16	1 x (174 mm / 6.85 inch) Low profile				
PCI-Express 2.0 x4 (mech. x16)	1 x (174 mm / 6.85 inch) Low profile				
PCI-Express x1	2 x (174 mm / 6.85 inch) Low profile				
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				
, <i>,</i>	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 1,250 pixel				
	1,920 x 1,080 pixel				

Graphics on board	
TFT resolution (DVI)	1.280 v 1.02/ nivol
	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 1,000 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
	For multi monitoring mode, graphics card and integrated graphics run in parallel
	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) : 84% / 90% / 92% / 91%
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	280 W
Power factor correction/active power	active
Monitor outlet	Switched
Power consumption	
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=e8a363d3-a208-4673-b54a-2b833cee25b9
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Related Processors for noise	Intel® Core™ i7 6700
Standard noise emission	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 / 20 dB(A) Bystander; 24 dB(A) Operator position
Standard noise operation mode: HDD load	3.2 B / 18 dB(A) Bystander; 20 dB(A) Operator position
Standard noise operation mode: Idle	3.2 B / 18 dB(A) Bystander; 19 dB(A) Operator position
mode	

Noise emission						
-	4.4 B / 30 dB(A) Bystander; 35 dB(A) Operator position					
load						
Standard noise operation mode: Office applications 2.0	3.2 B / 18 dB(A) Bystander; 19 dB(A) Operator position					
	According to ISO 7779:2010, ECMA-74					
	for max. possible configuration					
	A-weighted sound power level Lwad (in B); 1B = 10dB					
, , , , , , , , , , , , , , , , , , ,	3.4 B = 34 dB (A)					
load						
mode	3.3 B = 33 dB (A)					
Blue angel noise operation mode: ODD load	4.5 B = 45 dB (A)					
Dimensions / Weight / Environmental						
Dimensions (W x D x H)	332 x 338 x 89 mm					
· - /	12.68 x 13.31 x 3.51 inch					
Operating position	horizontal / vertical (optional, feet needed)					
	8 kg					
Weight (lbs)	17.64 lbs					
	Actual weight may vary depending on configuration					
Operating ambient temperature	10 - 35 °C (50 - 95 °F)					
Operating relative humidity	5 - 85 % (relative humidity)					
· · · · · ·						
Compliance Product	ESPRIMO D956/E90+					
	DTF					
	TÜV GS					
1	CE					
	FCC Class B					
	cCSAus					
	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)					
	CCC (planned)					
	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)					

Manageability					
Manageability software	DeskView Client				
manageability software	Deskview Chenne 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)				
Security					
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				
	Auto BIOS Update via customer server (optional)				
	Easy PC Protection (optional)				
Miscellaneous					
	Keyboard on (Special Fujitsu keyboard required) Thermal management				
	Low Power Active Mode				
	Extended lifetime				
Serviceability					
	EasyFix				
	EasyChange for HDD				
	EasyChange for optical drives				
Packaging information					
Packaging dimension (mm)	467 x 265 x 540 mm				
Packaging dimension (inch)	18.39 x 10.43 x 21.26 inch				
Max. quantity / pallet	28				
Material - Weight (g) Carton	1180 g				
Material - Weight (lbs) Carton	2.6 lbs				
Material - Weight (g) EPS / PS	180 g				
Material - Weight (lbs) EPS / PS	0.4 lbs				
Material - Weight (g) PE Material - Weight (lbs) PE	60 g				
Material - Weight (IDS) PE Packaging notes	0.13 lbs printed user documentation is bleached in chlorine 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			
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

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 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.	S26381-K341-L1** (**: country specific variation)

More information

Fujitsu OPTIMIZATION Services

In addition to FUJITSU Desktop ESPRIMO D956/ E90+, 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 D956/E90+, 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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