# FUJITSU

## Data Sheet FUJITSU Desktop ESPRIMO P756/E85+

### Excellent Performance, Expandability and Efficiency

The FUJITSU ESPRIMO P756/E85+ Desktop provides high expandability and solid performance for your challenging business applications. The use of a common software load within the product series ensures perfect infrastructure compatibility and simplifies rollouts. Its 85%-efficient power supply will ensure environmental compliance for years to come. With its innovative Low Power Active Mode feature you are ready for instant communication in the modern office. Intel® Standard Manageability keeps administration costs low. Finally, EraseDisk ensures secure system retirement.

### 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<sup>®</sup> Core<sup>™</sup> processor family and a power supply with 85% efficiency

### 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

### Serviceability

- Easy to extend and optimal user-friendliness without any additional tools
- Easy access to all replaceable and expandable components









### 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)
	*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
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, 512 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) SED (Self-Encrypting Drive)

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 PCIe x1, DS
	eSATA Interface
	Dual serial card PCIe x1

### Base unit

Base unit	ESPRIMO P756/E85+
Mainboard	
Mainboard type	D3401
Formfactor	μΑΤΧ
Chipset	Intel® Q150
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® I219V
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

I/O controller on board	
Controller functions	Serial ATA III (6 Gbit)
	NCQ
	AHCI
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
input devices (optional)	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
	1,000 x 1,000 pixel

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
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
Support for up to three independent displays
DirectX® 12
HDCP support
OpenCL™ 2.0 (requires Intel <sup>®</sup> 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
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
power supply efficiency (at 230V; 20% / 50% / 100% load) : 83% / 86% / 85%
0-Watt mode with hard-off switch
100 V - 240 V
50 Hz - 60 Hz
90 V - 264 V
47 Hz - 63 Hz
280 W
active
No
See white paper Energy Consumption
http://docs.ts.fujitsu.com/dl.aspx?id=24fde5fe-9534-4746-826a-668b5428f380
ווניף.//יטטכאנאוטוואטו.מאאא: וט־באוטכאנאיאאיאטאטאראיאטאטארטואטטארטואטט 
See white paper Energy Consumption
Intel® Core™ i7 6700
2x4 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) 3.6 B / 23 dB(A) Bystander; 26 dB(A) Operator position

Noise emission	
Standard noise operation mode: Idle mode	3.4 B / 21 dB(A) Bystander; 24 dB(A) Operator position
Standard noise operation mode: ODD load	4.4 B / 31 dB(A) Bystander; 35 dB(A) Operator position
Standard noise operation mode: Office applications 2.0	3.4 B / 21 dB(A) Bystander; 24 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	3.6 B = 36 dB (A)
Blue angel noise operation mode: Idle mode	3.5 B = 35 dB (A)
Blue angel noise operation mode: ODD load	4.5 B = 45 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 °C (50 - 95 °F)
Operating relative humidity	5 - 85 % (relative humidity)
Compliance	
Product	ESPRIMO P756/E85+
Model	MI5W
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 <sup>®</sup> Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™) CyberLink PowerDVD DVD (playback software for DVD) Nero Essentials XL

Managaahiliby	
Manageability	Deald Indete Drives measurement
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code
	Wake up from S5 (off mode)
	Intrusion switch (optional)
	WoL (Wake on LAN)
	Intel® Standard Manageability (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)
Supported standards	SMBIOS (System Management BIOS)
	PXE (Preboot Execution Environment)
	WMI (Windows Management Instrumentation)
	WBEM (Web Based Enterprise Management) CIM (Common Information Model)
Security Deviced Security	Kappington Lock 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
	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
Serviceability	
	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 information	
Packaging notes	printed user documentation is bleached in chlorine free process
Warranty	
Warranty period	1 year (depending on country)
Warranty type	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 1 year material warranty)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Product Support Services - the perf	ect 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.       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.       S26361-K1496-V140
Display B24W-7 LED	The FUJITSU B24W-7 LED Display with excellent ergonomics makes intensive Order Code: office work extremely comfortable. This highly reliable display offers superb S26361-K1497-V140 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.
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.
JC&C USB Headset Stereo H650e	The UC&C USB Headset Stereo H650e is the ultimate in style and Order Code: 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 <sup>™</sup> the headset displays a red 'in-call' LED to let your co-workers know when you're available, thus helping to boost office productivity.

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: S26391-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.

### More information

### Fujitsu OPTIMIZATION Services

In addition to FUJITSU Desktop ESPRIMO P756/ E85+, 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 P756/E85+, 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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