

Fujitsu recommends Windows 10 Pro.

# Data Sheet

## FUJITSU Desktop ESPRIMO D538

New small form factor PC in a more compact and space-saving design

The new FUJITSU ESPRIMO D538 Desktop PC provides superior expandability features in a smaller chassis design. The latest 8th Gen Intel® Core™ processors (with up to 6 cores and 12 threads) and improved connectivity options in front provide the much-needed performance to meet your daily office needs. Optional security functions, such as the integrated cabinet lock, EraseDisk and SmartCard reader help secure your valuable business data and hardware components. You can easily and freely configure each PC to meet your specific hardware needs as well as customize each PC to satisfy even more complex project requirements. With the ENERGY STAR® certification and up to 94%-efficient power supply option, ESPRIMO D538 helps reduce your carbon footprint and energy bill.



### New SFF system with 8I housing and superior expandability

Powerful and cost-effective small form factor PC that enables more space saving

- Improved connectivity options that include USB 3.1 gen1, optional SD card and SmartCard reader and VGA connector

### Best energy efficiency coupled with performance

Low power consumption combined with highest levels of performance

- 8th generation Intel® Core™ processor family, a switched monitor outlet and a power supply with 94% efficiency (optional)



### Manageability and Ease of Use

"Plug & work" PC that ensures smooth system administration

- Easy to integrate into existing IT landscapes and reliable DeskView manageability tools

### Advanced security

Designed to protect your data and system's hardware components

- Optional EraseDisk, integrated cabinet lock and smartcard reader for greater physical and data-level security

### Serviceability

Accessing and servicing the system is very easy and convenient due to tool-less chassis design

- Tool-less access to housing memory, connectors, ODD and HDD drives and all other components are easily accessible; optional external dust filter for the front panel for harsh, dusty environments



# Components

	ESPRIMO D538/E85+	ESPRIMO D538/E94+
<b>Processor</b>	Intel® Celeron® processor G4900 (2 Cores / 2 Threads, 3.10 GHz, 2 MB, Intel® UHD Graphics 610) Intel® Pentium® Gold G5400 processor (2 Cores / 4 Threads, 3.70 GHz, 4 MB, Intel® UHD Graphics 610) Intel® Core™ i3-8100 processor (4 Cores / 4 Threads, 3.60 GHz, 6 MB, Intel® UHD Graphics 630) Intel® Core™ i5-8400 processor (6 Cores / 6 Threads, 2.80 GHz, up to 4.0 GHz, 9 MB, Intel® UHD Graphics 630) * Intel® Core™ i5-8500 processor (6 Cores / 6 Threads, 3.00 GHz, up to 4.1 GHz, 9 MB, Intel® UHD Graphics 630) * Intel® Core™ i5-8600 processor (6 Cores / 6 Threads, 3.10 GHz, up to 4.3 GHz, 9 MB, Intel® UHD Graphics 630) * Intel® Core™ i7-8700 processor (6 Cores / 12 Threads, 3.20 GHz, up to 4.6 GHz, 12 MB, Intel® UHD Graphics 630) *	
	*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)	
<b>Operating systems</b>		
<b>Operating system pre-installed</b>	Windows 10 Pro. Fujitsu recommends Windows 10 Pro. Windows 10 Home	Windows 10 Pro. Fujitsu recommends Windows 10 Pro. Windows 10 Home
	ESPRIMO D538/E85+	ESPRIMO D538/E94+
<b>Memory modules</b>	4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,666 MHz, UDIMM 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,666 MHz, UDIMM 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,666 MHz, UDIMM	4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,666 MHz, UDIMM 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,666 MHz, UDIMM 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,666 MHz, UDIMM
	ESPRIMO D538/E85+	ESPRIMO D538/E94+
<b>Graphics</b>	Entry 3D: NVIDIA® Quadro® P400 , 2 GB, PCIe x16, 3x miniDP Entry 3D: AMD® Radeon R7 340, 2 GB, 1x Dual Link DVI-I, 1x DisplayPort Others: VGA Extension Card	Entry 3D: NVIDIA® Quadro® P400 , 2 GB, PCIe x16, 3x miniDP Entry 3D: AMD® Radeon R7 340, 2 GB, 1x Dual Link DVI-I, 1x DisplayPort Others: VGA Extension Card
	ESPRIMO D538/E85+	ESPRIMO D538/E94+
<b>Hard disk drive</b>	HDD SATA II, 5,400 rpm, 500 GB, 2.5-inch HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-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, 500 GB, 3.5-inch SSD PCIe, 1024 GB M.2 NVMe module SSD PCIe, 1024 GB M.2 NVMe module, SED SSD PCIe, 256 GB M.2 NVMe module SSD PCIe, 256 GB M.2 NVMe module, SED SSD PCIe, 512 GB M.2 NVMe module SSD PCIe, 512 GB M.2 NVMe module, SED SSD SATA III, 1024 GB, 2.5-inch SSD SATA III, 128 GB, 2.5-inch SSD SATA III, 256 GB, 2.5-inch SSD SATA III, 512 GB, 2.5-inch	HDD SATA II, 5,400 rpm, 500 GB, 2.5-inch HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-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, 500 GB, 3.5-inch SSD PCIe, 1024 GB M.2 NVMe module SSD PCIe, 1024 GB M.2 NVMe module, SED SSD PCIe, 256 GB M.2 NVMe module SSD PCIe, 256 GB M.2 NVMe module, SED SSD PCIe, 512 GB M.2 NVMe module SSD PCIe, 512 GB M.2 NVMe module, SED SSD SATA III, 1024 GB, 2.5-inch SSD SATA III, 128 GB, 2.5-inch SSD SATA III, 256 GB, 2.5-inch SSD SATA III, 512 GB, 2.5-inch
<b>Hard disk notes</b>	SSD (Solid State Disk) SED (Self-Encrypting Drive)	
	ESPRIMO D538/E85+	ESPRIMO D538/E94+
<b>Optical drive</b>	Weight saver DVD Super Multi ultra slim (tray), SATA BD Triple Writer SATA ultra slim (tray), SATA	Weight saver DVD Super Multi ultra slim (tray), SATA BD Triple Writer SATA ultra slim (tray), SATA

	ESPRIMO D538/E85+	ESPRIMO D538/E94+
<b>Interfaces add on cards / components</b>	WLAN 802.11ac (2x2) PCIe x1 and BT 5 (dedicated regions only) WLAN 802.11ac (2x2) PCIe x1 (dedicated regions only) Gigabit Ethernet PCIe x1 eSATA Interface Dual serial card PCIe x1	WLAN 802.11ac (2x2) PCIe x1 and BT 5 (dedicated regions only) WLAN 802.11ac (2x2) PCIe x1 (dedicated regions only) Gigabit Ethernet PCIe x1 eSATA Interface Dual serial card PCIe x1
<b>Base unit</b>	ESPRIMO D538/E85+	ESPRIMO D538/E94+
<b>Mainboard</b>		
<b>Mainboard type</b>	D3600	
<b>Formfactor</b>	proprietary	
<b>Chipset</b>	Intel® H310	
<b>Processor socket</b>	LGA 1151	
<b>Processor quantity maximum</b>	1	
<b>Supported capacity RAM (max.)</b>	32 GB	
<b>Memory slots</b>	2 DIMM (DDR4)	
<b>Memory frequency</b>	2,666 MHz	
<b>Memory notes</b>	Dual channel support For dual channel performance, 2 memory modules have to be ordered. Capacity per channel has to be the same. 2666 MHz may be clocked down to 2400 or 2133 depending on used processor	
<b>LAN</b>	10/100/1,000 MBit/s Realtek RTL8111G	
<b>BIOS version</b>	AMI Aptio V UEFI Specification 2.6	
<b>BIOS features</b>	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)	
<b>Audio type</b>	On board	
<b>Audio codec</b>	Realtek ALC671	
<b>Audio features</b>	Internal speaker supports audio playback (optional), High Definition audio, 5.1 surround sound	
<b>I/O controller on board</b>		
<b>Serial ATA total</b>	3	
<b>thereof SATA III</b>	3	
<b>thereof eSATA</b>	1	
<b>Controller functions</b>	Serial ATA III (6 Gbit) NCQ AHCI	
<b>Interfaces</b>		
<b>Audio: line-in</b>	1	
<b>Audio: line-out</b>	1	
<b>Front audio: microphone</b>	1	
<b>Front audio: headphone</b>	1	
<b>USB 2.0 total</b>	6	
<b>USB 3.1 Gen1 (USB 3.0) total</b>	4	
<b>USB 3.1 Gen2 total</b>	1 optional via add on card	
<b>USB front</b>	2x USB 2.0; 2x USB 3.0	
<b>USB rear</b>	2x USB 2.0; 2x USB 3.0; optional: additional 1x USB 3.1 Type C (Gen2) via add on card	
<b>USB internal</b>	2x USB 2.0	
<b>VGA</b>	optional: via adapter card	
<b>DisplayPort</b>	1	
<b>DVI</b>	1 (DVI-D)	
<b>Mouse / Keyboard (PS/2)</b>	2	
<b>Ethernet (RJ-45)</b>	1	

**Interfaces**

eSATA	1 (optional)
Interface Module notes	Anytime USB charge functionality

**Input device / components**

Input devices (optional)	Keyboard Mouse KBPC PX ECO Mouse M440 ECO
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**Drive bays**

2.5-inch bays	1
3.5-inch internal bays	1
5.25-inch external bays	1
Drive bay notes	5,25" bay: for slim optical disc drive only; 3.5" bay for 1x 3.5" drive (screwless) or optional via adapter for 1x or 2x 2.5" drives (screwless); 2.5" bay for 1x 2.5" drive (screws)
M.2-2280	1 x on mainboard for SSD NVMe (PCIe 2.0 x2; up to 10Gbit/s)

**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

**Graphics on board**

Graphics brand name	Intel® UHD Graphics 610, Intel® UHD Graphics 630
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Shared video memory	Up to half size of total system memory
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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 1,920 x 1,080 pixel
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TFT resolution (DVI)	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
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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 1,200 pixel 2,560 x 1,440 pixel 2,560 x 1,600 pixel 3,440 x 1,440 pixel 3,840 x 2,160 pixel 4,096 x 2,304 pixel
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Graphics features	Dual display support DirectX® 12 HDCP support OpenCL™ 2.0 (requires Intel® Core™ i3, i5 or i7 processors) OpenGL® 4.4 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
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**Graphics on board**

<b>Graphics notes</b>	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	
<b>Base unit</b>	ESPRIMO D538/E85+	ESPRIMO D538/E94+

**Electrical values**

<b>Power efficiency note</b>	power supply efficiency at 10% / 20% / 50% / 100% load for 230V: 80% / 85% / 88% / 87%; for 115V: 79% / 84% / 87% / 84%	power supply efficiency at 10% / 20% / 50% / 100% load for 230V: 87% / 91% / 94% / 93%; for 115V: 86% / 90% / 92% / 90%
<b>Rated voltage range</b>	100 V - 240 V	100 V - 240 V
<b>Rated frequency range</b>	50 Hz - 60 Hz	50 Hz - 60 Hz
<b>Operating voltage range</b>	90 V - 264 V	90 V - 264 V
<b>Operating line frequency range</b>	47 Hz - 63 Hz	47 Hz - 63 Hz
<b>Max. output of single power supply</b>	210 W	280 W
<b>Power factor correction/active power</b>	active	active
<b>Monitor outlet</b>	No	Switched
<b>Base unit</b>	ESPRIMO D538/E85+	ESPRIMO D538/E94+

**Power consumption**

<b>Power consumption note</b>	See white paper Energy Consumption	
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**Noise emission**

<b>Related Processors for noise</b>	Intel® Core™ i7 8700	Intel® Core™ i7 8700
<b>Standard noise emission</b>	2x4 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74	2x4 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
<b>Standard noise notes / description</b>	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))
<b>Standard noise operation mode: CPU 50% load</b>	3.5 B / 22 dB(A) Bystander; 24 dB(A) Operator position	3.5 B / 21 dB(A) Bystander; 23 dB(A) Operator position
<b>Standard noise operation mode: HDD load</b>	3.4 B / 21 dB(A) Bystander; 23 dB(A) Operator position	3.5 B / 21 dB(A) Bystander; 24 dB(A) Operator position
<b>Standard noise operation mode: Idle mode</b>	3.4 B / 21 dB(A) Bystander; 23 dB(A) Operator position	3.4 B / 20 dB(A) Bystander; 21 dB(A) Operator position
<b>Standard noise operation mode: ODD load</b>	4.5 B / 32 dB(A) Bystander; 36 dB(A) Operator position	4.5 B / 31 dB(A) Bystander; 36 dB(A) Operator position
<b>Standard noise operation mode: Office applications 2.0</b>	3.4 B / 21 dB(A) Bystander; 23 dB(A) Operator position	3.4 B / 21 dB(A) Bystander; 22 dB(A) Operator position

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	313 x 286 x 89 mm 12.32 x 11.26 x 3.51 inch	
<b>Operating position</b>	horizontal / vertical (optional, feet needed)	
<b>Weight</b>	5 kg	
<b>Weight (lbs)</b>	11.03 lbs	
<b>Weight notes</b>	Actual weight may vary depending on configuration	
<b>Operating ambient temperature</b>	10 - 35 °C (50 - 95 °F)	
<b>Operating relative humidity</b>	5 - 85 % (relative humidity)	

**Compliance**

<b>Product</b>	ESPRIMO D538/E85+	ESPRIMO D538/E94+
<b>Model</b>	DTL	
<b>Germany</b>	GS (planned)	
<b>Europe</b>	CE	



**Manageability**

<b>Supported standards</b>	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)
<b>Manageability link</b>	<a href="http://www.fujitsu.com/fts/manageability">http://www.fujitsu.com/fts/manageability</a>

**Miscellaneous**

	Keyboard on (Special Fujitsu keyboard required) Keyboard on with one key (KBPX Eco, KB521) Keyboard on with 2 keys (CTRL+CTRL) with PS2 or special USB keyboards Keyboard on with any key (USB) Thermal management	Keyboard on (Special Fujitsu keyboard required) Keyboard on with one key (KBPX Eco, KB521) Keyboard on with 2 keys (CTRL+CTRL) with PS2 or special USB keyboards Keyboard on with any key (USB) Thermal management
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**Warranty**

<b>Warranty period</b>	1 year (for countries in EMEA)
<b>Warranty type</b>	Bring-In / Onsite Service (for countries within region EMEA, for all other countries depending on local regulations)
<b>Warranty Terms &amp; Conditions</b>	<a href="http://support.ts.fujitsu.com/warranty">http://support.ts.fujitsu.com/warranty</a>
<b>Product Related Services - the perfect extension</b>	
<b>Recommended Service</b>	- 9x5, Onsite Response Time: Next Business Day
<b>Spare Parts availability</b>	5 years after end of product life
<b>Service Weblink</b>	<a href="http://www.fujitsu.com/fts/services/support">http://www.fujitsu.com/fts/services/support</a>

## Recommended Accessories

**Display B24W-7 LED (S)**

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-V161

**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

**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

**Keyboard KB950 Phone**

The KB950 Phone is a modern and slim line USB keyboard with integrated Skype for business features. This extremely reliable, high-speed input device is the perfect way to manage incoming and outgoing calls, even when the system is locked. Three additional keys make it easy to accept and end calls and mute your microphone during a call. Easy number dialing is assured with the numpad. The integrated 61 x 12 mm display shows the time and date, the user status and shows incoming call data in the form of the calling number and caller ID.

S26381-F950-L4\*\* (\*\*:  
Country specific variation)

# More information

## Fujitsu products, solutions & services

In addition to FUJITSU Desktop ESPRIMO D538, 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/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about FUJITSU Desktop ESPRIMO D538, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/fts/ESPRIMO](http://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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