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## Small form factor PC in a more compact and space-saving design

The Fujitsu ESPRIMO D7012 is a high performance, secure small form factor Desktop PC with ultimate expandability, along with best-in-class connectivity. Faster operations and a small housing helps in space saving to create the perfect working desk. The USB Type-C<sup>®</sup>, flexible graphics options, offers great connectivity. The 80Plus GOLD and 80Plus PLATINUM power supply helps to reduce environmental impact and energy bills.

### Latest Intel® chipset technology and higher memory speed

High performance ensures faster operations and lower system response time

- Intel<sup>®</sup> Q670 chipset with higher memory frequency of 3,200 MT/s
- Intel vPro<sup>®</sup> Enterprise and Intel vPro<sup>®</sup> Essentials technology as BTO (depending on processor)

## Ultimate expandability with easy serviceability

Space saving design for your future computing needs

- 3x low profile (LP) or 1x LP/ 1x full height (riser) via BTO
- Space saving in width and depth with 8.3 liters volume
- Tool-less access to components, easy change and screw-less add on cards

### **Best-in-class connectivity**

Be flexible and stay productive in a hyper-connected world

- Support of new USB Type-C<sup>®</sup> in front
- Flexible graphics options (VGA, DVI-D, HDMI, Type-C, DP)
- USB Type-C<sup>®</sup> support of 60 W (optional to power a display)

### **High security**

Designed to protect data and hardware components

- Hole for pad lock and Kensington as standard for security
- Embedded security with TPM 2.0, EraseDisk

### Low power consumption and environmental impact

Reduced environmental impact and reduced energy bills

• 80Plus PLATINUM power supply efficiency with monitor outlet







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# Specification

	ESPRIMO D7012	ESPRIMO D7012 ESTARx
Processor	Intel <sup>®</sup> Core <sup>™</sup> i7-13700 processor (16 Cores (8+8)/24 Threads, 2.1 GHz, 30 MB, Intel <sup>®</sup> UHD Graphics 770)** Intel <sup>®</sup> Core <sup>™</sup> i5-13500 processor (14 Cores (6+8)/20 Threads, 2.5 GHz, 24 MB, Intel <sup>®</sup> UHD Graphics 770)* Intel <sup>®</sup> Core <sup>™</sup> i5-13400 processor (10 Cores (6+4)/16 Threads, 2.5 GHz, 20 MB, Intel <sup>®</sup> UHD Graphics 730)* Intel <sup>®</sup> Core <sup>™</sup> i3-13100 processor (4 Cores/8 Threads, 3.4 GHz, 12 MB, Intel <sup>®</sup> UHD Graphics 730)*	
	Intel <sup>®</sup> Core <sup>™</sup> 13-13100 processor (4 Cores/8 1h	reads, 3.4 GHz, 12 MB, Intel® OHD Graphics 730)^
		)/20 Threads, 2.1 GHz, 25 MB, Intel® UHD Graphics 770) **
	•	hreads, 3.0 GHz, 18 MB, Intel <sup>®</sup> UHD Graphics 770)*
	•	hreads, 2.5 GHz, 18 MB, Intel <sup>®</sup> UHD Graphics 730)*
	•	reads, 3.3 GHz, 12 MB, Intel <sup>®</sup> UHD Graphics 730)*
	*With Intel <sup>®</sup> Turbo Boost Technology 2.0 (cloc and other variables)	<sup>®</sup> Core™ i5-12500, i5-13500 and Intel® Core™ i7 processors k speed and performance will vary depending on workload (clock speed and performance will vary depending on
	workload and other variables)	
Operating systems		
Operating	Windows 11 Pro	
system pre-	Windows 11 Home	
installed	Windows 10 Pro (Via Windows 11 Pro Downgrad	
	Fujitsu recommends Windows 11 Pro for busine	255
		- 500 2200 MT/, UDIMM
Memory modules	16 GB (1 module(s) 16 GB) DDR4, unbuffered, no	
	8 GB (1 module(s) 8 GB) DDR4, unbuffered, nor	
	4 GB (1 module(s) 4 GB) DDR4, unbuffered, non	-ECC, 3,200 M1/s, 0DIMM
Graphics	Entry 3D: NVIDIA <sup>®</sup> T600, 4 GB, PCIe x16, 4 x mir	hiDP Entry
	3D: NVIDIA <sup>®</sup> T400, 4 GB, PCIe x16, 3 x miniDP	
HDD 3.5 inch size	HDD SATA III, 7,200 rpm, 1000 GB, 3.5-inch HDD	)
	SATA III, 7,200 rpm, 2000 GB, 3.5-inch	
HDD 2.5 inch size	HDD SATA III, 5,400 rpm, 500 GB, 2.5-inch HDI	)
	SATA III, 5,400 rpm, 1000 GB, 2.5-inch	
M.2 SSD	SSD PCIe, 2048 GB M.2 NVMe (Gen4), SED	
	SSD PCIe, 1024 GB M.2 NVMe (Gen4), SED	
	SSD PCIe, 512 GB M.2 NVMe (Gen4), SED	
	SSD PCIe, 256 GB M.2 NVMe (Gen4), Value, SED	)
Hard disk notes	One Gigabyte equals one billion bytes, when re	eferring to hard disk drive capacity. SSD
	(Solid State Disk)	
	SED (Self-Encrypting Drive)	
Optical drive	DVD Super Multi ultra slim (tray),	
Wireless LAN	Intel® Wi-Fi 6E AX211 (2x2/160) Gig+ and Bluetc in dedicated regions)	ooth 5.2 (depends on OS support); SRD cat.1 (6E frequency on
	Intel® Wi-Fi 6E AX211 (2x2/160) Gig+ and Blue frequency only in dedicated regions)	etooth 5.2 vPro (depends on OS support); SRD cat.1 (6E
Wireless LAN Notes	WI-FI6E: The device does not operate in 6GHz	band in all countries, depending on individual regulations.

	ESPRIMO D7012	ESPRIMO D7012 ESTARx
Expansion	SD Card reader, USB 3.0 Dual serial card PCIe x1 LP Parallel PCIe x1 LP 2.5 Gigabit Ethernet PCIe x1	SD Card reader, USB 3.0
Expansion notes	The listed product components and optional functions are not available in all region/countries	The listed product components and optional functions are not available in all region/countries; Energy Star certification only with Windows operating system Base unit for TCO Certified generation 9

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## Base unit

	ESPRIMO D7012 ESPRIMO D7012 ESTARx	
Mainboard		
Mainboard type	D4023-A2	
Formfactor	Proprietary	
Chipset	Intel® Q670	
Processor socket	LGA1700	
Processor Qty (max.)	1	
Supported RAM (max.)	128 GB	
Memory slots	4 DIMM (DDR4)	
Memory frequency	3,200 MT/s	
Memory notes	Dual channel support For dual channel performance, 2 memory modules have to be ordered. Capacity per channel has to be the same. 3200 MHz may be clocked down to 2933/2400MHz depending on processor and memory configuration	
LAN	10/100/1,000 MBit/s Intel® 1219LM	
Integrated WLAN	Optional; The device does not operate in 6GHz band in all countries, due to national regulations."	
BIOS version	AMI Aptio V UEFI Specification 2.6	
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)	
Audio type	On board	
Audio codec	Realtek ALC897	
Audio features	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound	
I/O controller on board		
Serial ATA total	4	
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI SATA RAID Support	
Interfaces		
Audio: line-in	1	
Audio: line-out	1	
Front audio: headset	1	
USB front	3x USB 2.0 Type-A 1x USB 3.2 Gen2 (10 Gbps) Type-A 1x USB 3.2 Gen2x2 (20 Gbps) Type-C (supports up to 15W)	

	ESPRIMO D7012 ESPRIMO D7012 ESTARx	
USB rear	4x USB 2.0 Type-A	
	2x USB 3.2 Gen1 (5Gbps) Type-A	
USB internal	1x USB 2.0 or 1x USB 3.2 Gen1 (5Gbps) Type-A	
DisplayPort	2 (DisplayPort 1.4; DP++)	
Flexible Interface Options	1 DVI-D	
(only one can be chosen)	1 HDMI 2.1	
	1 USB 3.2 Gen2 Type-C (supports DisplayPort 1.4 and power delivery (PD) up to 15W)	
	1 USB 3.2 Gen2 Type-C (supports DisplayPort 1.4 and power delivery (PD) up to 60W, occupies PCIe	
	x16 slot)	
	1 Serial port (RS232, 9pin, 16 byte FIFO, 16550 compatible)	
Ethernet	1x RJ-45	
Interface Module notes	Anytime USB charge functionality	
Input device		
Input devices (optional)	Keyboard	
	Mouse	
Drive bays		
Drive bays total	3	
2.5-inch internal bays	1	
5.25-inch external bays	1	
Drive bay notes	Optional: 1x internal 3.5" bay (screwless) can be used via adapter for 1x or 2x 2.5" drives (screwless); 5.25" bay: for slim optical disc drive only;	
M.2-2280	2 x On mainboard for SSD NVMe (PCIe 4.0 x4; up to 64Gbit/s)	
Slots		
PCI-Express 3.0 x1	1 x (110 mm / 4.33 inch) Low profile	
PCI-Express 3.0 x4 (mech. x16)	1 x (150 mm / 5.91 inch)	
PCI-Express 4.0 x16	1 x (210 mm / 8.27 inch) Low profile	
Slots optional configuration	Optional slot versions: Rear wall with FH riser: 1x LP PCIe x4 = 150mm (5.9 inch), 1x FH PCIe x16 = 203mm (7.99 inch);	
M.2-2230	On mainboard for WLAN module	
Graphics on board		
Graphics brand name	Intel <sup>®</sup> UHD Graphics 770, Intel <sup>®</sup> UHD Graphics 730 *Depends on CPU	
Shared video memory	Up to half size of total system memory	
TFT resolution (VGA)	Up to 1,920 x 1,080 pixel	
TFT resolution (DVI)	Up to 1,920 x 1,200 pixel	
TFT resolution (DisplayPort)	Up to 4,096 x 2,304 pixel	
TFT resolution (HDMI)	Up to 4,096 x 2,304 pixel	
Graphics features	Support for up to four independent displays DirectX® 12	

	ESPRIMO D7012 ESPRIMO D7012 ESTARx	
	HDCP support	
	OpenCL™ 2.1	
	OpenGL <sup>®</sup> 4.6	
	Vulkan™	
	For multi monitoring mode, graphics card and integrated graphics run in parallel	
	DisplayPort interface supports Ver. 1.4 incl. Multi-Stream	
	Digital audio formats are supported, including Dolby Digital Plus (7.1 channels)	
	DVI-D interface supports audio output if connected to the HDMI interface of a display via suitable	
	adapter cables (not included)	
	System provides one connector to be used for LAN or graphics	
	See flexible interface options	
Electrical values		
Power efficiency note	Power supply efficiency in % at 10% / 20% / 50% / 100% load	
	80Plus GOLD:	
	for 230V; 87/90/92/91	
	for 115V; 86/89/91/88	
	80Plus PLATINUM:	
	for 230V; 88/92/94/93	
	for 115V; 87/91/92/91	
Rated voltage range	100 V - 240 V	
Rated frequency range	50 Hz - 60 Hz	
Operating voltage range	90 V - 264 V	
Operating line frequency	47 Hz - 63 Hz	
range		
Max. output of single power	GOLD: 280W; PLATINUM: 300 W	
supply		
Power factor	Active	
correction/active power		
Monitor outlet	Switched for PLATINUM power supply	
Noise emission		
Related Processors for noise	Intel® Core™ i5-12500 processor and 8GB, ODD; Windows 11 (tower position)	
Standard noise emission	According to ISO 7779:2010, ECMA-74	
Standard noise notes /	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm	
description	(in dB(A))	
Dimensions / Weight / Environ	mental	
Dimensions (W x D x H)	314 x 296 x 89 mm (12.36 x 11.65 x 3.51 inch)	
Operating position	Horizontal / Vertical (optional, feet needed)	
Weight	Approx. 8kg	
Weight (lbs)	Approx. 17.64lbs	
	Actual weight may vary depending on configuration	

	ESPRIMO D7012	ESPRIMO D7012 ESTARx	
Operating ambient	10 - 35 °C (50 - 95 °F)		
temperature			
Operating relative humidity	5 - 85 % (relative humidity)		
Compliance			
Model	DTG		
Certification	CE	ENERGY STAR <sup>®</sup>	
	RoHS (Restriction of hazardous substances)	RoHS (Restriction of hazardous substances)	
	CCC (In progress)	CCC (In progress)	
	BSMI (In progress)	BSMI (In progress)	
Compliance link	https://sp.ts.fujitsu.com/sites/certificates		
Additional Software			
Additional software	McAfee <sup>®</sup> LiveSafe™ (provides award-winning ant	tivirus protection for your PC and much more. 30 days	
(preinstalled)	trial pre-installed)		
	Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy Micros		
Additional software (optional)	Recovery DVD for Windows®		
	Drivers & Utilities DVD (DUDVD)		
	Nero Essentials XL		
	Microsoft® Office Professional 2021		
	Microsoft <sup>®</sup> Office Home and Business 2021		
	(Need to buy license to activate the pre-installed Microsoft Office. Purchase and activation only in the		
	region in which it was acquired.)		
Additional software (notes)	Use of accompanying and/or additional Software is subject to proactive acceptance of the respective		
	License Agreements /EULAs/ Subscription and support terms of the Software manufacturer as		
	applicable for the relevant Software whether preinstalled or optional. The software may only be		
	available bundled with a software support subscription which – depending on the Software - may be		
	subject to separate remuneration		
Security			
Physical Security	Kensington Lock support		
	Eye for padlock		
System and BIOS Security	Embedded security (TPM 2.0)		
	EraseDisk		
	Credential Guard Ready and Device Guard Capable (requires 8 GB or more system RAM and SSD PCIe		
	NVME) Modern Standby and Legacy Standby selectable		
	Write protect option for the Flash EPROM		
	Control of all USB interfaces		
	External USB ports can be disabled separately		
	Control of external interfaces		
	NIST SP800-193 Platform Firmware Resiliency su	pported	

	ESPRIMO D7012	ESPRIMO D7012 ESTARx
User Security	User and supervisor BIOS password	
	Hard disk password	
	Access protection via SmartCard rea	der (optional)
	AuthConductor Client Basic (secure a	authentication solution)
Security Notes	The properties of the product provide a baseline for product security and therefore end-custome security. However, these properties are not sufficient on their own to protect the product from existing threats, such as intrusion attempts, data exfiltration and other forms of cyberattacks. customize security settings, please use the configuration options as available for the respect product. During operation, the IT security of this product is within the responsibility of the respect administrator/end-user of the product. Please note, that Fujitsu as a manufacturer does not make policy prescriptions or advocacy statements regarding IT security best practices and/or generation.	
Manageability		
Manageability technology	DeskUpdate Driver management	
	PXE 2.1 Boot code	
	Wake up from S5 (off mode)	
	Intrusion switch (optional)	
	WoL (Wake on LAN)	
	Intel AMT 16.0 (optional; depending c	n processor)
Manageability software	DeskView Client	
	DeskView Instant BIOS Management	
DeskView components	BIOS Management incl. Security	
	Inventory Management	
	Driver Management	
	Alarm Management	
Supported standards	DMI (Desktop Management Interface	)
	SMBIOS (System Management BIOS)	
	PXE (Preboot Execution Environment	
	WMI (Windows Management Instrum	-
	WBEM (Web Based Enterprise Manag	gement)
	CIM (Common Information Model)	
Manageability link	http://www.fujitsu.com/fts/manageab	ility
Packaging information		
Packaging dimension (mm)	504 x 440 x 310mm	
Max. quantity / pallet	12	
Packaging material weight	1,534g	
Warranty		
Warranty Terms & Conditions	https://www.fujitsu.com/hk/ap/warranty	

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## More information

## Moving forward for a sustainable world – Fujitsu Uvance



The word "Uvance" embodies a concept of "Making all (Universal) things move forward (Advance) in a sustainable direction.

Fujitsu Uvance will leverage Fujitsu's technological capabilities and problem-solving expertise across seven key focus areas, including Sustainable Manufacturing, Consumer Experience, Healthy Living, Trusted Society, Digital Shifts, Business Applications, and Hybrid IT, to offer unprecedented value to customers, while contributing to the achievement of its

ultimate purpose —"to make the world more sustainable by building trust in society through innovation."

Through Fujitsu Uvance, we are committed to transforming the world into a place where people can live their lives, enjoying prosperity and peace of mind. Empowering each other to make the world more sustainable.

For more information of Fujitsu Uvance, please visit https://www2.fujitsu.com/global/uvance

## Driving customer success with Fujitsu's complete portfolio of service offering

To grow in an uncertain world, it is imperative to stay resilient and agile to respond complex and unforeseen challenges.

Under the global business brand – Uvance, Fujitsu provides a full range of reliable and best-in-class product, service, and solution offerings with digital innovation, from sustainable manufacturing to smart city ecosystem, to create a more sustainable world and resolve social issues. This empowers customers to strengthen resilience through Fujitsu's trusted solutions using cutting-edge technologies, while increasing their business agility and improving the reliability of their IT operations.

For more information, please visit https://www.fujitsu.com/global

#### **Contact Us**

#### HONG KONG

Fujitsu Business Technologies Asia Pacific Ltd. Tel: (852) 3910-8228 Email: fbta.hksales@fujitsu.com

INDONESIA

hk.fujitsu.com/pc

**PT Fujitsu Indonesia** Tel: (62) 21-570-9330 Email: marketing.fid@fujitsu.com id.fujitsu.com/pc

#### TAIWAN

Fujitsu Taiwan Ltd. Tel: (886) 2-2311-2255 Email: ftl.lifebook@fujitsu.com tw.fujitsu.com/pc SINGAPORE Fujitsu Asia Pte Ltd. Tel: (65) 6512-7555 Email: fapl.info@fujitsu.com sg.fujitsu.com/pc

#### PHILIPPINES

Fujitsu Philippines, Inc. Tel: (63) 2-8841-8488 Email: fpi-dl-fpp.pre-sales@fujitsu.com ph.fujitsu.com/pc

THAILAND Fujitsu (Thailand) Co., Ltd. Tel: (66) 0-2302-1500 Email: info.th@fujitsu.com th.fujitsu.com/pc

#### CHINA

Fujitsu (China) Holdings Co., Ltd. – PC China Division Tel: 86 (21) 58871000-8721 Email: fbta.cs@fujitsu.com cn.fujitsu.com/pc

#### MALAYSIA

Fujitsu (Malaysia) Sdn. Bhd Tel: (60) 3-8230-4188 Email: askfujitsu.my@fujitsu.com my.fujitsu.com/pc

VIETNAM

Fujitsu Vietnam Limited Tel: (84-24) 2220-3113 Email: salesvn@fujitsu.com vn.fujitsu.com/pc

Note: For countries not listed above, please contact Hong Kong office.

### **Specification disclaimers**

<sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 11 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. <sup>2</sup> GB = 1 billion bytes. TB = 1 trillion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software. Up to 20 GB of HDD space is reserved for system recovery. <sup>3</sup> Shared memory depending on main memory size and operating system.

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