Fujitsu recommends Windows 11 Pro.



Data Sheet Fujitsu Desktop ESPRIMO D7012

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, 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® Q670 chipset with a higher memory frequency of 3,200 MT/s
- Intel® vPro™ Enterprise and Intel® vPro™ 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-onn cards

Best-in-class connectivity

Be flexible and stay productive in a hyper-connected world

- Support of new USB Type-C in front
- Flexiport options (VGA, DVI-D, HDMI, Type-C, DP, Serial LAN, 2x USB Type-A)
- USB Type-C support of 60 W (optional to power a display)
- Legacy PS2, serial port connectors as an option

High security with integrated options

Designed to protect data and hardware components against manipulation and theft

- Cable cover in addition to existing Smartcard reader, an Erasedisk software
- Integrated cabinet lock with master key option
- Hole for padlock and Kensington as standard for security

Low power consumption and environmental impact Reduced environmental impact and reduced energy bills

- 80Plus GOLD and 80Plus PLATINUM power supply efficiency with monitor outlet
- Sum of post-consumer recycled content for plastic per weight is 62% (22% is from ITEderived post-consumer material and 40% are any other post-consumer material)







Components

	ESPRIMO D7012	ESPRIMO D7012 ESTAR	
Processor	Intel® Core™ i7-12700 processor (12 Cores(8+4) / 20 Threads, 2.1 GHz, 25 MB, Intel® UHD Graphics 770) ** Intel® Core™ i5-12500 processor (6 Cores / 12 Threads, 3.0 GHz, 18 MB, Intel® UHD Graphics 770) * Intel® Core™ i5-12400 processor (6 Cores / 12 Threads, 2.5 GHz, 18 MB, Intel® UHD Graphics 730) * Intel® Core™ i3-12100 processor (4 Cores / 8 Threads, 3.3 GHz,	Intel® Core™ i7-12700 processor (12 Cores(8+4) / 20 Threads, 2.1 GHz, 25 MB, Intel® UHD Graphics 770) ** Intel® Core™ i5-12500 processor (6 Cores / 12 Threads, 3.0 GHz, 18 MB, Intel® UHD Graphics 770) * Intel® Core™ i5-12400 processor (6 Cores / 12 Threads, 2.5 GHz, 18 MB, Intel® UHD Graphics 730) * Intel® Core™ i3-12100 processor (4 Cores / 8 Threads, 3.3 GHz, 12	
	12 MB, Intel® UHD Graphics 730) *	MB, Intel® UHD Graphics 730) *	
	Intel® vPro® Platform Logo (optional) with Intel® Core™ i5-12500, Intel® Core™ i5-12600, and Intel® Core™ i7 *With Intel® Turbo Boost Technology 2.0 (clock speed and performance will vary depending on workload and other variables) **with Intel® Turbo Boost Max Technology 3.0 (clock speed and performance will vary depending on workload and other variables)		
Operating systems			
Operating system pre-installed	Windows 11 Pro. Fujitsu recommends Windows 11 Pro for business. Windows 11 Home Windows 10 Pro. Fujitsu recommends Windows 11 Pro for business.		
Operating system notes	# Windows 11 requires for first device setup: - Internet connectivity - Microsoft account for Home editions or organizational account (e.g. ADD) for Pro editions		
	# After the product end of life, Fujitsu continues to test and support new Windows releases for max. 5 years, depending on the extension of hardware services through warranty top-ups. For more details please visit our Fujitsu Service Statement at https://support.ts.fujitsu.com/IndexProdSupport. asp?lng=com&OpenTab= The use of the Windows Operating System is subject to acceptance of the End User License Agreement of Microsoft as application under the relevant Microsoft program.		
	ESPRIMO D7012	ESPRIMO D7012 ESTAR	
Memory modules	32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 3,200 MT/s, UDIMM 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 3,200 MT/s, UDIMM 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 3,200 MT/s, UDIMM 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 3,200 MT/s, UDIMM		
	ESPRIMO D7012	ESPRIMO D7012 ESTAR	
Graphics	Entry 3D: NVIDIA® T400, 4 GB, PCIe x16, 3 x miniDP Entry 3D: NVIDIA® T400, 2 GB, PCIe x16, 3 x miniDP Others: MiniDP to DP Adapter Cable	Entry 3D: NVIDIA® T400, 4 GB, PCIe x16, 3 x miniDP Entry 3D: NVIDIA® T400, 2 GB, PCIe x16, 3 x miniDP Others: MiniDP to DP Adapter Cable	
	ESPRIMO D7012	ESPRIMO D7012 ESTAR	
Mass storage 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 SATA III, 7500rpm, 1000GB, 3.5-inch HDD SATA III, 7200rpm, 2000GB, 3.5-inch	
Mass storage 2.5-inch size	HDD SATA III 500GB 5.4k HDD SATA III 1000GB 5.4k 2 x HDD SATA III 500GB 5.4k 2 x HDD SATA III 1000GB 5.4k	HDD SATA III 500GB 5.4k HDD SATA III 1000GB 5.4k	
Mass Storage M.2 technology	SSD PCIe, 1024 GB M.2 NVMe module (Gen4), SED SSD PCIe, 2048 GB M.2 NVMe module (Gen4), SED SSD PCIe, 256 GB M.2 NVMe Module (Gen4), Value, SED SSD PCIe, 512 GB M.2 NVMe module (Gen4), SED	SSD PCIe, 1024 GB M.2 NVMe module (Gen4), SED SSD PCIe, 2048 GB M.2 NVMe module (Gen4), SED SSD PCIe, 256 GB M.2 NVMe Module (Gen4), Value, SED SSD PCIe, 512 GB M.2 NVMe module (Gen4), SED	

Page 2 / 8 www.fujitsu.com/emeia/ESPRIMO

One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. SSD (Solid State Disk) SED (Self-Encrypting Drive) Durability in accordance with the manufacturer's indications on read and write cycles.		
is on read and write cycles. ESPRIMO D7012 ESTAR		
ESPRIMO D/012 ESTAR		
ESPRIMO D7012 ESTAR		
Intel® Wi-Fi 6E AX211 (2x2/160) Gig+ and Bluetooth 5.2; SRD cat.1 (dedicated regions only) Intel® Wi-Fi 6E AX211 (2x2/160) Gig+ and Bluetooth 5.2 vPro SRD cat.1 (dedicated regions only)		
2.5 Gigabit Ethernet PCIe x1 WI-FI 6E: The device does not operate in 6GHz band in all countries, due to national regulations. see flexible interface options		
ESPRIMO D7012 ESTAR		
e not The listed product components and optional functions are available in all region/countries.		
Energy Star certification only with Windows operating syst Base unit for TCO Certified generation 9 Thunderbolt option is planned for 12/2022		
ESPRIMO D7012 ESTAR		
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		
UEFI Specification 2.6 BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)		
On board		
Realtek ALC257N		
Internal speaker supports audio playback, High Definition audio, 5.1 surround sound		
_		

Page 3 / 8 www.fujitsu.com/emeia/ESPRIMO

I/O controller on board			
Controller functions	Serial ATA III (6 Gbit)		
	NCQ		
	AHCI		
	SATA RAID Support		
Interfaces			
Audio: line-in	1	1	
Audio: line-out	1	1	
Front audio: headset	1	1	
Flexible Interface Options	One of following flexible Interface options can be added to the	One of following flexible Interface options can be added to the	
	system	system	
	HDMI™ 2.1	HDMI™ 2.1	
	DisplayPort™1.4a	DisplayPort™1.4a	
	DVI-D	DVI-D	
	VGA	VGA	
	USB 3.2 Gen 2 (10Gbps) Type-C™ (supports DisplayPort™	USB 3.2 Gen 2 (10Gbps) Type-C™ (supports DisplayPort™	
	1.4 and power delivery (PD) up to 60W. Occupies in addition	1.4 and power delivery (PD) up to 60W. Occupies in addition	
	PCIe x16 slot) USB 3.2 Gen 2 (10 Gbps) Type-C™ (supports DisplayPort™	PCIe x16 slot) USB 3.2 Gen 2 (10 Gbps) Type-C™ (supports DisplayPort™	
	1.4 and power delivery (PD) up to 15W)	1.4 and power delivery (PD) up to 15W)	
	Intel® Thunderbolt™ 4 (40 Gbps, supports DisplayPort 1.4 and	Intel® Thunderbolt™ 4 (40 Gbps, supports DisplayPort 1.4 and	
	15W power delivery)	15W power delivery)	
	2.5 Gigabit Ethernet (Intel 225LM) 2x	2x USB 2.0 Type A	
	USB 2.0 Type A	Serial port (9pin, 16 byte FIFO, 16550 compatible)	
	Serial port (9pin, 16 byte FIFO, 16550 compatible)		
USB front	3x USB 2.0 Type-A	3x USB 2.0	
	1x USB 3.2 Gen 2 (10 Gbps) Type-A	1x USB 3.2 Gen 2	
	1x USB 3.2 Gen 2x2 (20 Gbps) Type-C (supports up to 15W)	1x USB 3.2 Gen 2x2Type-C (supports up to 15W)	
USB rear	4x USB 2.0 Type-A	4x USB 2.0 Type-A	
	2x USB 3.2 Gen 1 (5 Gbps) Type-A see	2x USB 3.2 Gen 1 (5 Gbps) Type-A see	
	flexible interface options	flexible interface options	
USB internal	1x USB 2.0 or 1x USB 3.2 Gen 1 (5Gbps) Type-A	1x USB 2.0 or 1x USB 3.2 (Gen 1) Type A	
DisplayPort	2 (DisplayPort 1.4)	2 (DisplayPort 1.4)	
Ethernet (RJ-45)	1	1	
Interface Module notes	Anytime USB charge functionality	Anytime USB charge functionality	
Kensington Lock support	1	1	
Input device / components			
Input devices (optional)	Keyboard		
1 V.B I	Mouse		
Drive bays			
Drive bays total	3		
2.5-inch internal bays	1		
5.25-inch external bays	1		
		or 1v or 2v 2 5" drives (corowless)	
Drive bay notes	optional: 1x internal 3.5" bay (screwless) can be used via adapter for 1x or 2x 2.5" drives (screwless);		
M.2-2280	5.25" bay: for slim optical disc drive only; 2 x On mainboard for SSD NVMe (PCIe 4.0 x4; up to 64Gbit/s)		
	2 x 011111a111b0a1 \(101 \) 33b \(101 \) 12 \(101 \) 4.0 \(x \text{4.0 } \) \(x \text{4.0 } \) \(\text{10 } \) \(\text{4.0 } \) \(\text{5.0 } \)		
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);		
	CELSIUS Edition with special heatsink: 1x LP PCIe x4 = 150mm (5.9 inch), 1x LP PCIe x16 slot = 170 mm (6.69 inch) and 1x LP PCIe		
	x1 = 170mm (6,69 inch)		
M.2-2230	on mainboard for WLAN module		
Graphics on board			

Graphics on board	
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®
	12.1
	HDCP support
	OpenCL 3.0 OpenGL ® 4.6
	OpenGL ® 4.0
	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)
	see flexible interface options
Base unit	ESPRIMO D7012 ESPRIMO D7012 ESTAR
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 range	47 Hz - 63 Hz
Max. output of single power supply	GOLD: 280W; PLATINUM: 300 W
Power factor correction/active power	active
Monitor outlet	Switched for PLATINUM power supply
Base unit	ESPRIMO D7012 ESPRIMO D7012 ESTAR
Power consumption Power consumption	
Power consumption note	See white paper Energy Consumption
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 / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
Dimensions / Weight / Environmental	044 004 00
Dimensions (W x D x H)	314 x 296 x 89 mm
0	12.36 x 11.65 x 3.51 inch
Operating position	horizontal / vertical (optional, feet needed)
Weight (lbs)	approx. 8 kg approx. 17.64 lbs
	• • • • • • • • • • • • • • • • • • • •
Weight notes Operating ambient temperature	Actual weight may vary depending on configuration 10 - 35 °C (50 - 95 °F)
Operating ambient temperature Operating relative humidity	5 - 85 % (relative humidity)
	o oo a posser normany)
Compliance	F0001140 D7040
Product	ESPRIMO D7012 ESPRIMO D7012 ESTAR

Page 5 / 8

Compliance		
Model	DTG	
Germany	GS	
,	TÜV NRTL	
Europe	CE	
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL)	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) EPEAT® in progress (dedicated regions) TCO Certification in progress ENERGY STAR® in progress
Compliance link	https://sp.ts.fujitsu.com/sites/certificates	LINEITO I STAINS III progress
	Treepast option of too out the original control of the	
Additional Software		
Additional software (preinstalled)	McAfee® LiveSafe™ (provides award-winning antivirus protection for your PC and much more. 30 days trial pre- installed) Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy 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 Microsoft® Office Professional 2021 Microsoft® 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.	
Base unit	ESPRIMO D7012	ESPRIMO D7012 ESTAR
Security		
Physical Security	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Cable Cover (optional: covers and secures the ports and cables of	on rear side)
System and BIOS Security	Cable Cover (optional; covers and secures the ports and cables on rear side) 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	
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional) AuthConductor Client Basic (secure authentication solution)	
Security Notes	The properties of the product provide a baseline for product sect properties are not sufficient on their own to protect the product exfiltration and other forms of cyberattacks. To customize securit the respective product. During operation, the IT security of this administrator/end-user of the product. Please note, that Fujitsu as advocacy statements regarding IT security best practices and/	ct from all existing threats, such as intrusion attempts, data ty settings, please use the configuration options as available for s product is within the responsibility of the respective s a manufacturer does not make any policy prescriptions or

Page 6 / 8 www.fujitsu.com/emeia/ESPRIMO

Managadallity	
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 on processor)
Manageability software	DeskView Client
Manageability software	DeskView Instant BIOS Management
Dock/iow.components	
DeskView components	BIOS Management incl. Security Inventory Management
	Driver Management
	Alarm Management
Cupported standards	
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)
Manageability link	http://www.fujitsu.com/fts/manageability
<u> </u>	Tittp://www.tojico.com/rts/manageability
Miscellaneous	
	Keyboard on with one key (Fujitsu Keyboards KB521, KB955)
	Keyboard on with two keys (CTRL+CTRL; special Fujitsu USB keyboards required) Keyboard on
	with any key (USB)
	Thermal management
	Extended lifetime
Declaries information	Internal dust filter (optional)
Packaging information	400 - 207 - 420
Packaging dimension (mm)	499 x 296 x 439 mm
Packaging dimension (inch)	19.65 x 11.65 x 17.28 inch
Packaging notes	printed user documentation is bleached in chlorine free process; Bulk
	packaging for projects (optional)
Warranty	
Warranty period	3 years
Warranty type	Next Business Day Onsite
Warranty Terms & Conditions	https://www.fujitsu.com/au/imagesgig5/Fujitsu-Computer-Products-Warranty-Information-2021%20AU.pdf
Digital bug fives	Subject to availability and following their generic release for the product, bug fixes and function-preserving patches for product-
Digital bug fixes	related software (firmware) can be downloaded from the technical support at: https://support.ts.fujitsu.com/ free of charge by
	entering the respective product serial number. For application software supplied together with the product, please directly
	refer to the support websites of the respective software manufacturer.
Product Support - the perfect extension	
Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years
<u> </u>	<u> </u>
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/

Page 7 / 8 www.fujitsu.com/emeia/ESPRIMO

More information

Fujitsu products, solutions & services

In addition to Fujitsu Desktop ESPRIMO D7012, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, knowhow 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
https://www.fujitsu.com//au/products/computing/pc

Software www.fujitsu.com/software/

More information

Learn more about Fujitsu Desktop ESPRIMO D7012, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. https://www.fujitsu.com/au/products/comp uting/pc/desktops/

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



Copyrights

All rights reserved, including intellectual property rights. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner.

Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering.

Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner.

The overall product has been designed and manufactured for general office use, regular personal use and ordinary industrial use.

Contact

Fujitsu Technology Solutions GmbH Website: www.fujitsu.com 2022-08-25 EM-EN All rights reserved, including intellectual property rights. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see http://www.fujitsu.com/emeia/resources/navigation/terms-of-use.html
Copyright 2020 Fujitsu Technology Solutions GmbH