Fujitsu recommends Windows 11 Pro.

Data Sheet Fujitsu ESPRIMO D6012

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

The FUJITSU ESPRIMO D6012 is a high performance, secure small form factor Desktop PC with good expandability and good price performance ratio. Faster operations and a new housing helps in space saving to create the perfect working desk. The 80Plus GOLD and 80Plus PLATINUM power supply helps to reduce environmental impact and energy bills.

Latest Intel[®] chipset technology and higher memory speed Good performance ensures faster operations and lower system response time Intel[®] B660 chipset with higher memory frequency of 3,200 MT/s

Housing provides good expandability

- Space saving design
- 1x low profile (LP)
- Space saving in width and depth with new 8.3 liters volume

Good connectivity

- Be flexible and stay productive in a hyper-connected world
- 4x USB Type-A ports, USB Type-C and audio port in front for easy access

High security with integrated options

Designed to protect data and hardware components against manipulation and theft

- Cable cover and integrated cabinet lock with master key option, EraseDisk software
- Hole for pad lock and Kensington as standard for security
- Embedded security with TPM 2.0, EraseDisk, Workplace Protect

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% are from ITE derived post-consumer material and 40% are any other post-consumer material)









Components

	ESPRIMO D6012	ESPRIMO D6012 ESTAR
Processor	GHz, 18 MB, Intel® UHD Graphics 730) * Intel® Core™ i3-12100 processor (4 Cores / 8 Threads, 3.3 GHz, 12 MB, Intel® UHD Graphics 730) * Intel® Pentium® Gold G7400 (2 Cores / 4 Threads, 3.7 GHz 6 MB, Intel® UHD Graphics 710) * Intel® Celeron® processor G6900 (2 Cores / 2 Threads, 3.4 GHz, 4 MB, Intel® UHD Graphics 710) *	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 MB, Intel® UHD Graphics 730) *
		d and performance will vary depending on workload and
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	After the end of the product life Fujitsu will continue to test and support all upcoming Windows releases for a period of maximum 5 years, depending on the available extension of hardware services through Fujitsu Warranty top ups. F details please see "Fujitsu Service Statement for Windows General Availability Channel" at https://support.ts.fujitsu. com/IndexProdSupport.asp?Ing=com&OpenTab= The use of Windows Operating System is subject to acceptance of the End User License Agreement of Microsoft as applicable under the relevant Microsoft program.	
	ESPRIMO D6012	ESPRIMO D6012 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 D6012	ESPRIMO D6012 ESTAR
Graphics		
	ESPRIMO D6012	ESPRIMO D6012 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	
Mass Storage M.2 technology	SSD PCIe, 1024 GB M.2 NVMe module (Gen4), SED SSD PCIe, 128 GB M.2 NVMe Module, Value, 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, 512 GB M.2 NVMe Module (Gen4), Value, 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 SSD PCIe, 512 GB M.2 NVMe Module (Gen4), Value, SED
Hard disk notes	One Gigabyte equals one billion bytes, when referring to SSD (Solid State Disk) SED (Self-Encrypting Drive)	hard disk drive capacity.
	ESPRIMO D6012	ESPRIMO D6012 ESTAR
Optical drive	BD Triple Writer SATA ultra slim (tray), SATA DVD Super Multi ultra slim (tray), SATA	

	ESPRIMO D6012	ESPRIMO D6012 ESTAR
Interfaces add on cards / components	Parallel Card (1 Port) Intel® Wi-Fi 6E AX211 (2x2/160) Gig+ and Bluetooth 5.2; SRD cat.1 (dedicated regions only) Dual serial card PCle x1 LP 2.5 Gigabit Ethernet PCle x1	Intel® Wi-Fi 6E AX211 (2x2/160) Gig+ and Bluetooth 5.2; SRD cat.1 (dedicated regions only)
LAN Notes	WI-FI 6E: The device does not operate in 6GHz band in all countries, due to national regulations.	
	ESPRIMO D6012	ESPRIMO D6012 ESTAR
Component 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

Base unit

Base unit	ESPRIMO D6012 ESPRIMO D6012 ESTAR	
Mainboard		
Mainboard type	D4023-A1	
Formfactor	proprietary	
Chipset	Intel® B660	
Processor socket	LGA1700	
Processor quantity maximum	1	
Supported capacity 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 Realtek RTL8111H	
Integrated WLAN	optional	
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 ALC257N	
Audio features	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound	
/O controller on board		
Serial ATA total	4	
hereof SATA III	3	
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 2.0 total	5	
USB 3.2 Gen1 (5 Gbps) total	2	

Interfaces	
USB 3.2 Gen2 (10 Gbps) total	3
•	
USB front	2x USB 2.0; 2x USB 3.2 Gen 2
	1x USB 3.2 Gen 2 Type C (supports up to 15W)
USB rear	2x USB 2.0; 2x USB 3.2 Gen 1
USB internal	1x USB 2.0
DisplayPort	2
Ethernet (RJ-45)	1
Interface Module notes	Anytime USB charge functionality
Kensington Lock support	1
Input device / components	
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	1 x on mainboard for SSD NVMe (PCle 4.0 x4; up to 64Gbit/s)
Slots	
PCI-Express 3.0 x4 (mech. x16)	1 x (150 mm / 5.91 inch)
M.2-2230	on mainboard for WLAN module
Graphics on board	
Graphics brand name	Intel® UHD Graphics 770, Intel® UHD Graphics 730, Intel® UHD Graphics 710
Shared video memory	Up to half size of total system memory
TFT resolution (DisplayPort)	Up to 4,096 x 2,304 pixel
Graphics features	Support for up to four independent displays
	DirectX [®] 12
	HDCP support OpenCL™ 2.1
	OpenGL [®] 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)
Base unit	ESPRIMO D6012 ESPRIMO D6012 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 D6012 ESPRIMO D6012 ESTAR

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 rel	ated A-weighted sound pressure level LpAm (in dB(A))
Standard noise operation mode: CPU 50% load	tbd	
Dimensions / Weight / Environmental		
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. 8 kg	
Weight (lbs)	approx. 17.64 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 D6012	ESPRIMO D6012 ESTAR
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	
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 now Microsoft® Office 365 customers Buy Microsoft Office)	
Additional software (optional)	Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy Microsoft Office.) 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 was acquired.)	
Additional software (notes)	Use of accopanying 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 D6012	ESPRIMO D6012 ESTAR
Security		
Physical Security	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Cable Cover (optional; covers and secures the ports and ca	ables on rear side)

Security		
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	
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) AuthConductor Client Basic (secure authentication solution)	
Security Notes	The properties of the product provide a baseline for product security and therefore end-customer IT security. However these properties are not sufficient on their own to protect the product from all existing threats, such as intrusion attempts, data exfiltration and other forms of cyberattacks. To customize security settings, please use the configuration options as available for the respective product. During operation, the IT security of this product is within the responsibility of the respective administrator/end-user of the product. Please note, that Fujitsu as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation.	
Manageability		
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN)	
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 Instrumentation) WBEM (Web Based Enterprise Management) CIM (Common Information Model)	
Manageability link	http://www.fujitsu.com/fts/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 Internal dust filter (optional)	
Packaging information		
Packaging notes	printed user documentation is bleached in chlorine free process; Bulk packaging for projects (optional)	
Warranty		
Warranty period	1 year	
Warranty type	Bring-In / Onsite Service (depending on country)	
Warranty Terms & Conditions	http://www.fujitsu.com/warranty	
Digital bug fixes	Subject to availability and following their generic release for the product, bug fixes and function-preserving patches for product-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 Services - the perf		
Recommended Service	9x5, Onsite Response Time: Next Business Day	
Spare Parts availability	5 years	
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/	

Recommended Accessories

More information

Fujitsu products, solutions & services

In addition to Fujitsu Desktop ESPRIMO D6012, 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 D6012, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

www.fujitsu.com/emeia/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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