# Datasheet Fujitsu Desktop ESPRIMO D6012



Fujitsu recommends Windows 11 Pro

#### 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 small 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

• 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**

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







## **Specification**

	ESPRIMO D6012	ESPRIMO D6012 ESTARx
Processor	Intel® Core™ i7-13700 processor (16 Cores (8+8)/24 Th	nreads, 2.1 GHz, 30 MB, Intel® UHD Graphics 770)**
	Intel® Core™ i5-13500 processor (14 Cores (6+8)/20 T	hreads, 2.5 GHz, 24 MB, Intel® UHD Graphics 770)*
	Intel® Core™ i5-13400 processor (10 Cores (6+4)/16 Th	nreads, 2.5 GHz, 20 MB, Intel® UHD Graphics 730)*
	Intel® Core™ i3-13100 processor (4 Cores/8 Threads, 3	3.4 GHz, 12 MB, Intel® UHD Graphics 730)*
	Intel® Core™ i7-12700 processor (12 Cores(8+4)/20 Th	·
	Intel® Core™ i5-12500 processor (6 Cores/12 Threads	•
	Intel® Core™ i5-12400 processor (6 Cores/12 Threads	•
	Intel® Core™ i3-12100 processor (4 Cores/8 Threads, 3	•
		and performance will vary depending on workload and
	other variables)	speed and performance will vary depending on workload
	and other variables)	peed and performance will vary depending on workload
Operating systems		
Operating system	Windows 11 Pro.	
pre- installed	Windows 11 Home.	
	Windows 10 Pro (Via Windows 11 Pro Downgrade Opti	ion)
	Fujitsu recommends Windows 11 Pro for business.	
Memory modules	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
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	
	HDD 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 referring	g to hard disk drive capacity.
	SSD (Solid State Disk)	
	SED (Self-Encrypting Drive)	
Optical drive	DVD Super Multi ultra slim (tray), SATA	
Wireless LAN		(depends on OS support); SRD cat.1 (6E frequency only
	in dedicated regions)	
Expansion	Dual serial card PCIe x1 LP	-
	2.5 Gigabit Ethernet PCIe x1 Parallel PCIe x1	
Wireless LAN Notes	WI-FI 6E: The device does not operate in 6GHz band in	n all countries, depending on individual local regulations.
	·	
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

D4023-A1
Proprietary
Intel® B660
LGA1700
1
128 GB
4 DIMM (DDR4)
3,200 MT/s
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
10/100/1,000 MBit/s Realtek RTL8111H
Optional; The device does not operate in 6GHz band in all countries, due to national regulations.
AMI Aptio V
UEFI Specification 2.6
BIOS Flash EPROM update by software
Recovery BIOS
Unified Extensible Firmware Interface (UEFI)
On board
Realtek ALC897
Internal speaker supports audio playback, High Definition audio, 5.1 surround sound
4
Serial ATA III (6 Gbit)
NCQ
AHCI
SATA RAID Support
1
1
1
2x USB 2.0 Type A
2x USB 3.2 Gen2 (10 Gbps) Type A
1x USB 3.2 Gen2 (10 Gbps) Type C (supports up to 15W)
2x USB 2.0 Type A

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	2x USB 3.2 Gen1 (5 Gbps) Type A	
USB internal	1x USB 2.0	
DisplayPort	2 (DP++)	
Ethernet (RJ-45)	1	
Interface Module	Anytime USB charge functionality	
Notes		
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	1x on mainboard for SSD NVMe (PCIe 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 *Depends on CPU	
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)	
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	

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	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		
Noise emission			
Related Processors for noise	Intel® Core™ i5-12500 processor and 8GB, ODD; W	findows 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 / Er	nvironmental		
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		
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			
Model	DTG		
Certification	CE RoHS (Restriction of hazardous substances)	ENERGY STAR® RoHS (Restriction of hazardous substances)	
Compliance link	https://sp.ts.fujitsu.com/sites/certificates		

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Additional Software		
Additional software (preinstalled)	McAfee <sup>®</sup> LiveSafe <sup>™</sup> (provides award-winnin pre-installed)	g antivirus protection for your PC and much more. 30 days trial
(1- 3	•	osoft® Office 365 customers. Buy Microsoft Office.)
Additional software	Recovery DVD for Windows®	
(optional)	Drivers & Utilities DVD (DUDVD)	
	Nero Essentials XL	
	Microsoft® Office Professional 2021	
	Microsoft® Office Home and Business 2021	
	(Need to buy license to activate the pre-ins in which it was acquired.)	talled Microsoft Office. Purchase and activation only in the region
	·	
Additional software (notes)	Agreements /EULAs/ Subscription and sup	tware is subject to proactive acceptance of the respective License port terms of the Software manufacturer as applicable for the optional. The software may only be available bundled with a
	•	nding on the Software - may be subject to separate remuneration.
Security		
Physical Security	Kensington Lock support	
	Eye for padlock	
System and BIOS	Embedded security (TPM 2.0)	
Security	EraseDisk	
		Capable (requires 8 GB or more system RAM and SSD PCIe NVME)
	Modern Standby and Legacy Standby selec	table
	Write protect option for the Flash EPROM	
	Control of all USB interfaces	
	External USB ports can be disabled separate	ely
	Control of external interfaces	
	NIST SP800-193 Platform Firmware Resilien	
	NIST SP800-155 BIOS Integrity Measuremer	t supported
	NIST SP800-147 BIOS Protection supported	
User Security	User and supervisor BIOS password	
	Hard disk password	
	Access protection via SmartCard reader (op	tional)
	AuthConductor Client Basic (secure authent	ication solution)
Security Notes		eline for product security and therefore end-customer IT security.
	·	on their own to protect the product from all existing threats, such
	•	other forms of cyberattacks. To customize security settings, please
		or the respective product. During operation, the IT security of this
	product is within the responsibility of the re	espective 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 oper	ation.
Manageability		
Manageability	DeskUpdate Driver management	
	PXE 2.1 Boot code	

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	Wake up from S5 (off mode)	
	WoL (Wake on LAN)	
Manageability	DeskView Client	
software	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	
Packaging information		
Packaging dimension	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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#### 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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