Fujitsu recommends Windows 11 Pro.



Data Sheet Fujitsu Desktop ESPRIMO P6012

Flexible and economic desktop PC for standard office applications

The Fujitsu ESPRIMO P6012 Desktop PC provides high-quality computing for your everyday office tasks with latest 12th Gen Intel® Core™ processor. Security functions such as SmartCard reader (optional), the EraseDisk feature and cable cover help secure your valuable business data as well as hardware components. An easily configurable PC to meet your specific hardware needs as well as customize it to satisfy even more complex project requirements.

High performance and best price/performance ratio Ensures smooth performance for standard office applications

- Latest 12th Generation Intel® Core™ processor family
- Higher memory speed, higher clock frequency, improved integrated graphics

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

Robust Security

Designed to protect data and hardware components against manipulation and theft

- Cable cover with lock option at the back to protect ports, cables and components from theft
- Embedded Trusted Platform Module (TPM) and system-level passwords
- EraseDisk software and SmartCard are available as options

Best energy efficiency coupled with performance Low power consumption combined with highest levels of performance

■ A switched monitor outlet (with PLATINUM power supply)

Made in Europe with low environmental impact Reduced environmental impact and reduced energy bills with outstanding quality and stable functions based on European production standard

- The development, production and functionality tests all under one roof in Europe
- Sum of post-consumer recycled content for plastic per weight is 52% (14% are from ITE derived post-consumer material and 38% are any other post-consumer material)















Components

	ESPRIMO P6012	ESPRIMO P6012 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, 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) *
*with Intel® Turbo Boost Technology 2.0 (clock speed and performance will vary depending on variables) **with Intel® Turbo Boost Max Technology 3.0 (clock speed and performance will vary dependiother 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 ac After product end of life, Fujitsu continues to test and supl extension of hardware services through warranty top ups. For more details please visit our Fujitsu Service Statement asp?lng=com&OpenTab=	port new Windows releases for max. 5 years, depending or under https://support.ts.fujitsu.com/IndexProdSupport.
	The use of Windows Operating System is subject to accept applicable under the relevant Microsoft program.	cance of the End User License Agreement of Microsoft as
		ESPRIMO P6012 ESTAR
Memory modules	applicable under the relevant Microsoft program.	ESPRIMO P6012 ESTAR 000 MT/s, UDIMM 000 MT/s, UDIMM 0 MT/s, UDIMM
Memory modules	applicable under the relevant Microsoft program. ESPRIMO P6012 32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 3,2 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 3,2 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 3,200	ESPRIMO P6012 ESTAR 000 MT/s, UDIMM 000 MT/s, UDIMM 0 MT/s, UDIMM
	applicable under the relevant Microsoft program. ESPRIMO P6012 32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 3,2 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 3,2 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 3,200 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 3,200	ESPRIMO P6012 ESTAR 00 MT/s, UDIMM 00 MT/s, UDIMM 0 MT/s, UDIMM 0 MT/s, UDIMM
	applicable under the relevant Microsoft program. ESPRIMO P6012 32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 3,2 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 3,200 4 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 3,200 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 3,200 ESPRIMO P6012 Entry 3D: NVIDIA® T400, 4 GB, PCle x16, 3 x miniDP Entry 3D: NVIDIA® T400, 2 GB, PCle x16, 3 x miniDP Entry 3D: NVIDIA® GeForce® GTX 1650, 4 GB, PCle x16 Entry 3D: AMD Radeon™ Pro WX 3200, 4 GB, PCle x16, 4 x miniDP	ESPRIMO P6012 ESTAR 00 MT/s, UDIMM 00 MT/s, UDIMM MT/s, UDIMM MT/s, UDIMM ESPRIMO P6012 ESTAR Entry 3D: NVIDIA® T400, 4 GB, PCle x16, 3 x miniDP Entry 3D: NVIDIA® T400, 2 GB, PCle x16, 3 x miniDP
Graphics Mass storage 3.5 inch size	applicable under the relevant Microsoft program. ESPRIMO P6012 32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 3,2 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 3,2 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 3,200 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 3,200 ESPRIMO P6012 Entry 3D: NVIDIA® T400, 4 GB, PCle x16, 3 x miniDP Entry 3D: NVIDIA® T400, 2 GB, PCle x16, 3 x miniDP Entry 3D: NVIDIA® GeForce® GTX 1650, 4 GB, PCle x16 Entry 3D: AMD Radeon™ Pro WX 3200, 4 GB, PCle x16, 4 x miniDP Others: MiniDP to DP Adapter Cable	ESPRIMO P6012 ESTAR 00 MT/s, UDIMM 00 MT/s, UDIMM MT/s, UDIMM ESPRIMO P6012 ESTAR Entry 3D: NVIDIA® T400, 4 GB, PCle x16, 3 x miniDP Entry 3D: NVIDIA® T400, 2 GB, PCle x16, 3 x miniDP Others: MiniDP to DP Adapter Cable
Memory modules Graphics Mass storage 3.5 inch size Mass Storage M.2 technology	applicable under the relevant Microsoft program. ESPRIMO P6012 32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 3,2 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 3,2 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 3,200 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 3,200 ESPRIMO P6012 Entry 3D: NVIDIA® T400, 4 GB, PCle x16, 3 x miniDP Entry 3D: NVIDIA® T400, 2 GB, PCle x16, 3 x miniDP Entry 3D: NVIDIA® GeForce® GTX 1650, 4 GB, PCle x16 Entry 3D: AMD Radeon™ Pro WX 3200, 4 GB, PCle x16, 4 x miniDP Others: MiniDP to DP Adapter Cable ESPRIMO P6012 HDD SATA III, 7,200 rpm, 1000 GB, 3.5-inch	ESPRIMO P6012 ESTAR 00 MT/s, UDIMM 00 MT/s, UDIMM MT/s, UDIMM ESPRIMO P6012 ESTAR Entry 3D: NVIDIA® T400, 4 GB, PCle x16, 3 x miniDP Entry 3D: NVIDIA® T400, 2 GB, PCle x16, 3 x miniDP Others: MiniDP to DP Adapter Cable

Page 2 / 8

	ESPRIMO P6012	ESPRIMO P6012 ESTAR
Optical drive	DVD Super Multi ultra slim (tray), SATA BD Triple Writer SATA ultra slim (tray), SATA	
	ESPRIMO P6012	ESPRIMO P6012 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 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 P6012	ESPRIMO P6012 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 P6012	ESPRIMO P6012 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 t 3200 MHz may be clocked down to 2933/2400 MHz depe	
LAN	10/100/1,000 MBit/s Realtek RTL8111H	
Integrated WLAN	optional	
BIOS version	AMI Aptio V UEFI Specification 2.8	
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	1
Audio: line-out	1	1
Front audio: headset	1	1

Interfaces		
USB front	2x USB 2.0:	2x USB 2.0;
חוטוו עכט וויטוו	2x USB 3.2 Gen 2 (10 Gbps) Type-A	2x USB 3.2 Gen 2 (10 Gbps) Type-A
	1x USB 3.2 Gen 2 (10 Gbps) Type-C (supports up to 15W)	1x USB 3.2 Gen 2 (10 Gbps) Type-C (supports up to 15W)
USB rear	2x USB 2.0; 2x USB 3.2 Gen 1 (5 Gbps) Type-A	2x USB 2.0; 2x USB 3.2 Gen 1 (5 Gbps) Type-A
USB internal	1x USB 2.0	1x USB 2.0
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	
	Mouse	
Drive bays		
Drive bays total	6	
2.5-inch internal bays	1	
3.5-inch internal bays	2	
3.5-inch external bays	1	
5.25-inch external bays	2	
Drive bay notes	5,25" bays: one bay in HH format, one bay for slim optical cinternal 3.5" bays: 3.5" drive (screwless) or 2.5" drive (screw	
M.2-2280	1 x on mainboard for SSD NVMe (PCIe 4.0 x4; up to 64Gbit/s)	
Slots	<u> </u>	
PCI-Express 3.0 x4 (mech. x16)	1 x (270 mm / 10.63 inch)	
PCI-Express 3.0 x16	1 x (270 mm / 10.63 inch) Full height	
M.2-2230	on mainboard for WLAN module	
	on mainboard for WEAR module	
Graphics on board		WD C 11 740
Graphics brand name	Intel® UHD Graphics 770, Intel® UHD Graphics 730, Intel® U	HD Grapnics 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® 12.1	
	HDCP support	
	OpenCL 3.0	
	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	181 (74)
	Digital audio formats are supported, including Dolby Digit	tai Pius (7.1 channeis)
Base unit	ESPRIMO P6012	ESPRIMO P6012 ESTAR
Electrical values		
Power efficiency note	Power supply efficiency in % at 10% / 20% / 50% / 100% ld	pad
	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	
	active	

Electrical values		
Monitor outlet	Switched for PLATINUM power supply	
Base unit	ESPRIMO P6012	ESPRIMO P6012 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 Standard noise operation mode: HDD	Bystander; Operator position PLATINUM PSU: 3.2 B / 18 dB(A); 20 dB(A) (SSD M.2) GOLD PSU: 3.4 B / 20 dB(A); 23 dB(A) (3.5 HDD)	
load Standard noise operation mode: Idle mode	Bystander; Operator position PLATINUM PSU: 3.2 B / 18 dB(A); 20 dB(A) (SSD M.2) GOLD PSU: 3.4 B / 21 dB(A); 23 dB(A) (3.5 HDD)	
Standard noise operation mode: ODD load	Bystander; Operator position PLATINUM PSU: 4.5 B / 31 dB(A); 36 dB(A) (SSD M.2) GOLD PSU: 4.5 B / 31 dB(A); 36 dB(A) (3.5 HDD)	
Standard noise operation mode: Office applications 2.0	Bystander; Operator position PLATINUM PSU: 3.2 B / 18 dB(A); 20 dB(A) (SSD M.2) GOLD PSU: 3.4 B / 21 dB(A); 23 dB(A) (3.5 HDD)	
Dimensions / Weight / Environmental		
Dimensions (W x D x H)	180 x 304 x 375 mm	
	7.09 x 11.97 x 14.76 inch	
Operating position	Vertical	
Weight	approx. 10 kg	
Weight (lbs)	approx. 22.05 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 P6012	ESPRIMO P6012 ESTAR
Model	MI7W	
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 ENERGY STAR® 8.0 EPEAT® Gold (dedicated regions) TCO Certified, generation 9
Compliance link	https://sp.ts.fujitsu.com/sites/certificates	
Additional Software		
Additional software (preinstalled)	McAfee® LiveSafe™ (provides award-winning antivirus pro installed) Microsoft Office (1 month trial for new Microsoft® Office 3	

Page 5 / 8 www.fujitsu.com/emeia/ESPRIMO

Additional Software	
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 P6012 ESPRIMO P6012 ESTAR
Security	
Physical Security	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Cable Cover (optional; covers and secures the ports and cables on rear side)
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 SP800-147 BIOS Protection supported NIST SP800-155 BIOS Integrity Measurement supported NIST SP800-193 Platform Firmware Resiliency supported
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)
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	https://www.fujitsu.com/global/products/computing/pc/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 Integrated dust filter in front bezel
Packaging information	
Packaging dimension (mm)	439 x 296 x 499 mm
Packaging dimension (inch)	17.28 x 11.65 x 19.65 inch
Max. quantity / pallet	24
Material - Weight (g) Carton	1114 g
Material - Weight (lbs) Carton	2.46 lbs
Material - Weight (g) PE	246 g
Material - Weight (lbs) PE	0.54 lbs
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 - the perfect extension	
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 P6012, 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 P6012, 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



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. For further information see http://www.fujitsu.com/emeia/resources/navigation/terms-of-use.

Copyright 2020 Fujitsu Technology Solutions GmbH

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 2023-01-02 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