

Datasheet

Fujitsu

Desktop

ESPRIMO P7012



Fujitsu recommends Windows 11 Pro

Excellent performance, expandability, and efficiency

The Fujitsu ESPRIMO P7012 Desktop PC provides high expandability and solid performance for your challenging business applications. The PC is powered by the latest 13th generation Intel® Core™ processor family. With great security features, improved graphics, increased encode/decode capabilities and improved performance, the PC is best for advanced computing needs.

Latest 13th generation Intel® Core™ processor family for:

Powerful performance for smooth running of office applications

- Higher memory speed, higher clock frequency, improved integrated graphics
- Intel vPro® Enterprise and Intel vPro® Essentials technology as BTO (depending on processor)

Easy serviceability and usability

Features designed for easy access, control, and use of the system

- Tool-less access to components and interfaces for ease of use
- USB Type-C® (USB 3.2 Gen2) front connector which supports power delivery up to 15 W

Best-in-Class connectivity

Be flexible and stay productive in a hyper-connected world

- Flexible graphics connector options: VGA, DVI-D, HDMI, Type-C, DP
- Type-C option supporting 60 Watt output power to run a display w/o extra power supply

Robust security

Designed to protect data and hardware components against manipulation and theft

- Embedded Trusted Platform Module (TPM), Erasedisk Software
- SmartCard is available as an option



Specification

	ESPRIMO P7012	ESPRIMO P7012 ESTARx
Processor	Intel® Core™ i7-13700 processor (16 Cores (8+8)/24 Threads, 2.1 GHz, 30 MB, Intel® UHD Graphics 770)** Intel® Core™ i5-13500 processor (14 Cores (6+8)/20 Threads, 2.5 GHz, 24 MB, Intel® UHD Graphics 770)* 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 vPro® Platform Logo (optional) with Intel® Core™ i5-12500 and Intel® Core™ i7 processors *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. Windows 10 Pro (Via Windows 11 Pro Downgrade Option). 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	
Graphics	Entry 3D: NVIDIA® T1000, 8 GB, PCIe x16, 4 x miniDP Entry 3D: NVIDIA® T600, 4 GB, PCIe x16, 4 x miniDP Entry 3D: NVIDIA® T400, 4 GB, PCIe x16, 3 x miniDP Others: MiniDP to DP Adapter Cable	
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	
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 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.	
Optical drive	DVD Super Multi ultra slim (tray), SATA	
Wireless LAN	Intel® Wi-Fi 6E AX211 (2x2/160) Gig+ and Bluetooth 5.2(depends on OS support); SRD cat.1 (6E frequency only in dedicated regions) Intel® Wi-Fi 6E AX211 (2x2/160) Gig+ and Bluetooth 5.2 vPro (depends on OS support); SRD cat.1 (6E frequency only in dedicated regions)	
Expansion	Dual serial card PCIe x1 2.5 Gigabit Ethernet PCIe x1 MultiCard Reader 15in1 USB 3.0 3.5", USB 3.0	
Wireless LAN Notes	WI-FI 6E: The device does not operate in 6GHz band in all countries, depending on individual local regulations.	

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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

Base unit

	ESPRIMO P7012	ESPRIMO P7012 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® I219LM	
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 1x USB 3.2 Gen2 (10 Gbps) 1x USB 3.2 Gen2x2 (20 Gbps) Type-C (supports up to 15W)	

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USB rear	4x USB 2.0 2x USB 3.2 Gen1 (5 Gbps) Optional*: 1x USB 3.2 Gen2 (10 Gbps) Type-C (supports DisplayPort 1.4 and power delivery (PD) up to 15W or 60W (occupies PCIe x16 slot) 2x USB 2.0 Type-A	
USB internal	1x USB 2.0 or 1x USB 3.2 Gen1 (5 Gbps) Type A	
VGA	1 optional*	
DisplayPort	2	
DVI	1 (DVI-D; optional*)	
Serial (RS-232)	1 (optional*)	
HDMI	1 (optional*)	
Ethernet (RJ-45)	1x RJ-45	
Interface Module notes	*Only one of the interfaces marked as "optional" can be configured at the same time Anytime USB charge functionality	
Input device		
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 disc drive only; internal 3.5" bays: 3.5" drive (screwless) or 2.5" drive (screws; optional screwless)	
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) Full height	
PCI-Express 3.0 x4 (mech. x16)	1 x (270 mm / 10.63 inch)	
PCI-Express 4.0 x16	1 x (270 mm / 10.63 inch) Full height	
M.2-2230	On mainboard for WLAN module	
Graphics on board		
Graphics brand name	Intel® UHD Graphics 770	
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	

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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 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) 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 Optional graphics connectors: HDMI™ 2.1 DisplayPort™ 1.4a DVI-D VGA USB Type-C® (supports DisplayPort™ 1.4 and power delivery (PD) up to 15W) USB Type-C® (supports DisplayPort™ 1.4 and power delivery (PD) up to 60W. Occupies PCIe x16 slot)	

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

Noise emission

Standard noise emission	According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A-weighted sound power level L _{wad} (in B) / Workplace related A-weighted sound pressure level L _{pAm} (in dB(A))

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

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Weight	Approx. 10kg	
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	MI7W	
Certification	CE RoHS (Restriction of hazardous substances) CCC (In progress) BSMI (In progress)	ENERGY STAR® RoHS (Restriction of hazardous substances) CCC (In progress) BSMI (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 new Microsoft® Office 365 customers. Buy Microsoft Office.)	
Additional software (optional)	Recovery DVD for Windows® 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-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	

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	NIST SP800-193 Platform Firmware Resiliency supported NIST SP800-155 BIOS Integrity Measurement supported NIST SP800-147 BIOS Protection supported	
User Security	User and supervisor BIOS password Hard disk password Access protection via 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) Intrusion switch WoL (Wake on LAN) Intel AMT 16.0 (depending on 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 Instrumentation) WBEM (Web Based Enterprise Management) CIM (Common Information Model)	
Manageability link	http://www.fujitsu.com/fts/manageability	
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	

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>

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

Specification disclaimers

¹ 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. ² 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. ³ Shared memory depending on main memory size and operating system.

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