

# Datasheet

## Fujitsu

### Desktop

#### ESPRIMO G6012



Fujitsu recommends Windows 11 Pro

### Mini, Mighty | Takes up your challenges, not your space

The Fujitsu ESPRIMO G6012 is a stylish Mini PC which offers desktop functionality in an ultra-compact, space-saving design. Latest Intel chipset and 13<sup>th</sup> generation Intel® Core™ processors provides the performance for daily office needs. Flexible mounting options like attach to displays, wall mount, under table mount, its size and many interfaces make it to an ideal device where space saving is critical.

### A stylish Mini PC with ultra-compact design

Energy and space-saving for clean, clutter-free desk with convenient access to ports and ODD

- Fully equipped PC with a volume of only 0.87 liters
- Impressive performance/volume ratio and is easy to set up in minutes
- Benefit of DVD drive option in a slightly bigger chassis

### Ultimate usability

Flexible mounting and wide range of usage scenarios

- Can be used for horizontal or vertical operations and easy upgrade of major components
- Best prepared for VESA mount usage
- Integrate ESPRIMO G6012 into Fujitsu AIO Display P2410 for space saving and flexible upgrades



### Small yet grand

High performance in a small Mini PC design

- Latest Intel® chipset technology and 13<sup>th</sup> generation Intel® Core™ processor family

### Perfect fit for modern offices and workplaces of tomorrow

The PC which can transform your workplace for the next generation

- Supports new workplace scenarios with a single USB Type-C® connection
- USB Type-C® Docking port for future workplace and AIO-like usage



### Feature-rich and energy-efficient

Do a lot more with fewer energy consumption

- Improved energy efficiency
- Next generation Intel integrated graphics
- USB Type-C® connector with front access to support peripherals like USB Type-C® sticks or headsets
- Highly efficient AC adapter or be operated by the power from peripherals, e.g. port rep or displays



# Specification

	ESPRIMO G6012	ESPRIMO G6012 ESTARx
<b>Processor</b>	Intel® Core™ i7-13700T processor (16 Cores (8+8)/24 Threads, 1.4 GHz, 30 MB, Intel® UHD Graphics 770)* Intel® Core™ i5-13500T processor (14 Cores (6+8)/20 Threads, 1.6 GHz, 24 MB, Intel® UHD Graphics 770) Intel® Core™ i5-13400T processor (10 Cores (6+4)/16 Threads, 1.3 GHz, 16 MB, Intel® UHD Graphics 730) Intel® Core™ i3-13100 processor (4 Cores/8 Threads, 3.4 GHz, 12 MB, Intel® UHD Graphics 730)	Intel® Core™ i7-12700T processor (12 Cores (8+4)/20 Threads, 1.4 GHz, 20 MB, Intel® UHD Graphics 770) Intel® Core™ i5-12500T processor (6 Cores/12 Threads, 2.0 GHz, 12 MB, Intel® UHD Graphics 770) Intel® Core™ i5-12400T processor (6 Cores/12 Threads, 1.8 GHz, 12 MB, Intel® UHD Graphics 730) Intel® Core™ i3-12100 processor (4 Cores/8 Threads, 3.3 GHz, 12 MB, Intel® UHD Graphics 730)
	*90 Watt AC adapter is required for maximum CPU performance	
<b>Operating systems</b>	Windows 11 Pro. Windows 11 Home. Windows 10 Pro (Via Windows 11 Pro Downgrade Option). Fujitsu recommends Windows 11 Pro for business.	
<b>Memory modules</b>	16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 3,200 MT/s, SO DIMM 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 3,200 MT/s, SO DIMM 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 3,200 MT/s, SO DIMM	
<b>HDD 2.5 inch size</b>	HDD SATA III, 5,400 rpm, 1000 GB, 2.5-inch HDD SATA III, 5,400 rpm, 2000 GB, 2.5-inch	
<b>M.2 SSD</b>	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	
<b>Hard disk notes</b>	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. SSD (Solid State Disk) SED (Self-Encrypting Drive) 2.5-inch bay for devices with 7mm height Durability in accordance with the manufacturer's indications on read and write cycles.	
<b>Optical drive</b>	DVD Super Multi ultra slim (tray), SATA (optional)	
<b>Wireless LAN</b>	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)	
<b>Wireless LAN Notes</b>	WI-FI 6E: The device does not operate in 6GHz band in all countries, depending on individual local regulations.	
<b>Expansion notes</b>	The listed product components and optional functions are not available in all region/countries; System is available in 2 different housing versions: Small version (0.87 Liter) ODD bay version (1.23 Liter)	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; System is available in 2 different housing versions: Small version (0.87 Liter) ODD bay version (1.23 Liter)

# Base unit

	ESPRIMO G6012	ESPRIMO G6012 ESTARx
<b>Mainboard</b>		
Mainboard type	D4014-B	
Formfactor	Proprietary	
Chipset	Intel® B660	
Processor socket	LGA1700	
Processor Qty (max.)	1	
Supported RAM (max.)	64 GB	
Memory slots	2 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® I219V	
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 ALC257N	
Audio features	Internal speaker supports audio playback, High Definition audio	
<b>I/O controller on board</b>		
Serial ATA total	2	
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI	
<b>Interfaces</b>		
Front audio: headset	1	
USB front	1x USB 3.2 Gen1 (5 Gbps) Type-A 1x USB 3.2 Gen2 (10 Gbps) Type-A 1x USB 3.2 Gen2 (10 Gbps) Type-C (provides up to 15W)	
USB rear	2x USB 2.0 Type-A (plus 2 ports optional*) 1x USB 3.2 Gen1 (5 Gbps) Type-A 1x USB 3.2 Gen2 (10 Gbps) Type-A 1x USB 3.2 Gen2 (10 Gbps) Type-C (supports DisplayPort 1.4 and power delivery sink **)	

## Datasheet Fujitsu Desktop ESPRIMO G6012

Fujitsu recommends Windows 11 Pro

	ESPRIMO G6012	ESPRIMO G6012 ESTARx
DisplayPort	1x (DisplayPort 1.4, DP++) (2nd port optional*, DP)	
Serial (RS-232)	1 (optional*)	
HDMI	1x HDMI 2.1 (2nd port 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., **With power delivery sink support, the system is operated by the power from peripherals, e.g. port replicators or displays. An extra power supply for the system is not needed. Peripherals must provide min. 90Watt (for maximum CPU performance).	
<b>Input device</b>		
Input devices (optional)	Keyboard Mouse	
<b>Drive bays</b>		
Drive bays total	2	
2.5-inch internal bays	1	
5.25-inch external bays	1	
Drive bay notes	5.25" bay: for slim optical disc drive only as option with ODD bay housing version;	
M.2-2280	1 x on mainboard (PCIe 4.0 x4; up to 64Gbit/s)	
<b>Graphics on board</b>		
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	
Graphics features	Support for up to four independent displays DirectX® 12 HDCP support OpenCL™ 2.1 OpenGL® 4.6 Vulkan™ DisplayPort interface supports Ver. 1.4 incl. Multi-Stream HDMI™ 2.1 Digital audio formats are supported, including Dolby Digital Plus (7.1 channels)	
<b>Electrical values</b>		
Power efficiency note	90 Watt AC adapter: power supply efficiency at 115/230V: 89% average efficiency	
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	AC Adapter: 90 W	

## Datasheet Fujitsu Desktop ESPRIMO G6012

Fujitsu recommends Windows 11 Pro

	ESPRIMO G6012	ESPRIMO G6012 ESTARx
<b>Noise emission</b>		
Standard noise emission	According to ISO 7779:2010, ECMA-74	
Standard noise notes / description	A-weighted sound power level L <sub>wad</sub> (in B) / Workplace related A-weighted sound pressure level L <sub>pAm</sub> (in dB(A))	
<b>Dimensions / Weight / Environmental</b>		
Dimensions (W x D x H)	146.5 x 164.5 x 36 mm (5.77 x 6.48 x 1.42 inch)	
Dimension notes	With ODD drive bay, the dimensions are: 146.5 x 164.5 x 51 mm (5.77 x 6.48 x 2.01 inch)	
Operating position	Vertical / Horizontal (feet included)	
Weight	Base: Min:0.85kg; 1x mem.,1x SDD / Max:1.015kg; 2x mem.,2x SSD,HDD,Flexi,WLAN ODD version: Min:1.185kg / Max:1.275kg *Weight of AC adapter and power cord are not included	
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)	
<b>Compliance</b>		
Model	MPCG	
Certification	CE RoHS (Restriction of hazardous substances)	ENERGY STAR® RoHS (Restriction of hazardous substances)
Compliance link	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>	
<b>Additional Software</b>		
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	

## Datasheet Fujitsu Desktop ESPRIMO G6012

Fujitsu recommends Windows 11 Pro

	ESPRIMO G6012	ESPRIMO G6012 ESTARx
	available bundled with a software support subscription which – depending on the Software - may be subject to separate remuneration.	
<b>Security</b>		
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 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.	
<b>Manageability</b>		
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	<a href="http://www.fujitsu.com/fts/manageability">http://www.fujitsu.com/fts/manageability</a>	

**Datasheet** Fujitsu Desktop ESPRIMO G6012

Fujitsu recommends Windows 11 Pro

	ESPRIMO G6012	ESPRIMO G6012 ESTARx
<b>Packaging information</b>		
Packaging dimension (mm)	489 x 218 x 165mm	
Max. quantity / pallet	48	
Packaging material weight	702g	
<b>Warranty</b>		
Warranty Terms & Conditions	<a href="https://www.fujitsu.com/hk/ap/warranty">https://www.fujitsu.com/hk/ap/warranty</a>	

## 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>

### Contact Us

#### HONG KONG

**Fujitsu Business Technologies Asia Pacific Ltd.**  
Tel: (852) 3910-8228  
Email: [fzca.hksales@hk.fujitsu.com](mailto:fzca.hksales@hk.fujitsu.com)  
[hk.fujitsu.com/pc](http://hk.fujitsu.com/pc)

#### SINGAPORE

**Fujitsu Asia Pte Ltd.**  
Tel: (65) 6512-7555  
Email: [fapl.info@fujitsu.com](mailto:fapl.info@fujitsu.com)  
[sg.fujitsu.com/pc](http://sg.fujitsu.com/pc)

#### CHINA

**Fujitsu (China) Holdings Co., Ltd. – PC China Division**  
Tel: 86 (21) 58871000-8721  
Email: [fpcacn.support@cn.fujitsu.com](mailto:fpcacn.support@cn.fujitsu.com)  
[cn.fujitsu.com/pc](http://cn.fujitsu.com/pc)

#### INDONESIA

**PT Fujitsu Indonesia**  
Tel: (62) 21-570-9330  
Email: [marketing@id.fujitsu.com](mailto:marketing@id.fujitsu.com)  
[id.fujitsu.com/pc](http://id.fujitsu.com/pc)

#### PHILIPPINES

**Fujitsu Philippines, Inc.**  
Tel: (63) 2-8841-8488  
Email: [fpi-dl-fpp.pre-sales@fujitsu.com](mailto:fpi-dl-fpp.pre-sales@fujitsu.com)  
[ph.fujitsu.com/pc](http://ph.fujitsu.com/pc)

#### MALAYSIA

**Fujitsu (Malaysia) Sdn. Bhd**  
Tel: (60) 3-8230-4188  
Email: [askfujitsu.my@fujitsu.com](mailto:askfujitsu.my@fujitsu.com)  
[my.fujitsu.com/pc](http://my.fujitsu.com/pc)

#### TAIWAN

**Fujitsu Taiwan Ltd.**  
Tel: (886) 2-2311-2255  
Email: [ftl.lifebook@fujitsu.com](mailto:ftl.lifebook@fujitsu.com)  
[tw.fujitsu.com/pc](http://tw.fujitsu.com/pc)

#### THAILAND

**Fujitsu (Thailand) Co., Ltd.**  
Tel: (66) 0-2302-1500  
Email: [info.th@fujitsu.com](mailto:info.th@fujitsu.com)  
[th.fujitsu.com/pc](http://th.fujitsu.com/pc)

#### VIETNAM

**Fujitsu Vietnam Limited**  
Tel: (84-24) 2220-3113  
Email: [sales-vn@fujitsu.com](mailto:sales-vn@fujitsu.com)  
[vn.fujitsu.com/pc](http://vn.fujitsu.com/pc)

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

### 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.

Fujitsu shall not be liable for technical or editorial errors or omissions contained herein. Ultrabook, Celeron, Celeron Inside, Core Inside, Intel, Intel Logo, Intel Atom, Intel Atom Inside, Intel Core, Intel Inside, Intel Inside Logo, Intel vPro, Intel Evo, Itanium, Itanium Inside, Pentium, Pentium Inside, vPro Inside, Xeon, Xeon Phi, Xeon Inside, Intel Agilex, Arria, Cyclone, Movidius, eASIC, Empirion, Iris, MAX, Intel RealSense, Stratix, and Intel Optane are trademarks of Intel Corporation or its subsidiaries. USB Type-C<sup>®</sup> and USB-C™ are trademarks of USB Implementers Forum. All other trademarks are the property of their respective owners.

All rights reserved, including intellectual property rights. Technical data subject to modifications 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 manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see [www.fujitsu.com/global/about/resources/terms/](http://www.fujitsu.com/global/about/resources/terms/).

© 2023 Fujitsu Business Technologies Asia Pacific Limited

Last Update: May 31, 2023