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Fujitsu recommends Windows 11 Pro.

Data Sheet
Fujitsu Desktop ESPRIMO G6012

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

The Fujitsu ESPRIMO G6012 is a stylish Mini PC that offers desktop functionality in an ultra-compact, space-saving design. The latest Intel chipset and 12th Gen Intel® Core™ processors provide 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 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- and Bluray 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

Small yet grand
High performance in a small Mini PC design
- Latest Intel® chipset technology and 12th Generation Intel® Core™ processor family
- Legacy support for standard Mini PC interfaces

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 Type-C connection

Feature-rich and energy-efficient
Do a lot more with this Mini PC and also get lesser energy bill
- Improved energy efficiency
- Next generation INTEL integrated graphics
- Type-C connector with front access to support peripherals like Type-C USB sticks or headsets
- Highly efficient AC adapter or be operated by the power from peripherals, e.g. port rep or displays
- Sum of post-consumer recycled content for plastic per weight is 57% (22% are from ITE derived post-consumer material and 35% are any other post-consumer material)

intel CORE i7   HDMI

Components

	ESPRIMO G6012	ESPRIMO G6012 ESTAR
Processor	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) *	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) *
	*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. 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 account (e.g. ADD) for Pro editions # After the product end of life, Fujitsu continues to test and support new Windows releases for max. 5 years, depending on the extension of hardware services through warranty top-ups. For more details, please visit our Fujitsu Service Statement at https://support.ts.fujitsu.com/IndexProdSupport.asp?lng=com&OpenTab= The use of the Windows Operating System is subject to acceptance of the End User License Agreement of Microsoft as applicable under the relevant Microsoft program.

	ESPRIMO G6012	ESPRIMO G6012 ESTAR
Memory modules	32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 3,200 MT/s, SO DIMM 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	

	ESPRIMO G6012	ESPRIMO G6012 ESTAR
Graphics		

	ESPRIMO G6012	ESPRIMO G6012 ESTAR
Mass storage 2.5-inch size	HDD SATA III, 5,400 rpm, 2000 GB, 2.5-inch	
Mass Storage M.2 technology	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, 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
Hard disk notes	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.	

	ESPRIMO G6012	ESPRIMO G6012 ESTAR
Optical drive	DVD Super Multi ultra slim (tray), SATA	

	ESPRIMO G6012	ESPRIMO G6012 ESTAR
Interfaces add on cards / components	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. see flexible interface options	

	ESPRIMO G6012	ESPRIMO G6012 ESTAR
Component notes	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

Base unit	ESPRIMO G6012	ESPRIMO G6012 ESTAR
Mainboard		
Mainboard type	D4014-B	
Formfactor	proprietary	
Chipset	Intel® B660	
Processor socket	LGA1700	
Processor quantity maximum	1	
Supported capacity 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	
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	Onboard	
Audio codec	Realtek ALC257N	
Audio features	Internal speaker supports audio playback, High-Definition audio	
I/O controller on board		
Serial ATA total	2	
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI	
Interfaces		
Front audio: headset	1	1

Interfaces

Flexible Interface Options	One of following flexible Interface options can be added to the system HDMI™ 2.1 DisplayPort™ 1.4a 2.5 Gigabit Ethernet (Intel 225LM) Serial port (9pin, 16 byte FIFO, 16550 compatible) 2x USB 2.0 Type A	One of following flexible Interface options can be added to the system HDMI™ 2.1 DisplayPort™ 1.4a Serial port (9pin, 16 byte FIFO, 16550 compatible) 2x USB 2.0 Type A
USB front	1x USB 3.2 Gen 1 (5 Gbps) Type-A 1x USB 3.2 Gen 2 (10 Gbps) Type-A 1x USB 3.2 Gen 2 (10 Gbps) Type-C (provides up to 15W)	1x USB 3.2 Gen 1 (5 Gbps) Type-A 1x USB 3.2 Gen 2 (10 Gbps) Type-A 1x USB 3.2 Gen 2 (10 Gbps) Type-C (provides up to 15W)
USB rear	2x USB 2.0 Type-A 1x USB 3.2 Gen 1 (5 Gbps) Type-A 1x USB 3.2 Gen 2 (10 Gbps) Type-A 1x USB 3.2 Gen 2 Type-C (10 Gbps, supports DisplayPort 1.4 and power delivery sink **) see flexible interface options	2x USB 2.0 Type-A 1x USB 3.2 Gen 1 (5 Gbps) Type-A 1x USB 3.2 Gen 2 (10 Gbps) Type-A 1x USB 3.2 Gen 2 Type-C (10 Gbps, supports DisplayPort 1.4 and power delivery sink **) see flexible interface options
DisplayPort	1 (DisplayPort 1.4)	1 (DisplayPort 1.4)
HDMI	1 (HDMI 2.1)	1 (HDMI 2.1)
Ethernet (RJ-45)	1	1
Interface Module notes	**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. 60Watt or 90Watt (for maximum CPU performance).	**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. 60Watt or 90Watt (for maximum CPU performance).
Kensington Lock support	1	I

Input device / components

Input devices (optional)	Keyboard Mouse

Drive bays

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 an option with ODD bay housing version;
M.2-2280	1 x on mainboard (PCIe 4.0 x4; up to 64Gbit/s) and 1 x optional (PCIe 3.0 x4; up to 32Gbit/s)
Mini PCI slots	
M.2-2230	on the 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 the size of the total system memory
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® 12.1 HDCP support OpenCL 3.0 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) see flexible interface options
Base unit	ESPRIMO G6012	ESPRIMO G6012 ESTAR

Electrical values

Power efficiency note	90-Watt AC adapter: power supply efficiency at 115/230V: 89% average efficiency
Rated voltage range	100 V - 240 V

Electrical values

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
Base unit	ESPRIMO G6012	ESPRIMO G6012 ESTAR

Power consumption

Power consumption note	See white paper Energy Consumption

Noise emission

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 / Environmental

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	Small: 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 AC adapter (0.32kg) and power cord 0.175kg) are not part of min/max
Weight (lbs)	Base: Min: 1.88 lbs / Max: 2.24 lbs ODD version: Min:2.62 lbs / Max:2.82 lbs AC adapter (0.71lbs) and power cord 0.39lbs) are not part of min/max 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 G6012	ESPRIMO G6012 ESTAR
Model	MPCG	
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® in progress (dedicated regions) TCO Certification 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) 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 G6012	ESPRIMO G6012 ESTAR

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	
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 Extended lifetime	
Accessories information	Further helpful options Desktop Accessories: http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/ http://www.fujitsu.com/global/products/computing/peripheral/accessories/connectivity/ Stands and Mounting kits: http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/ums/index.html Available Adapters: http://globalsp.ts.fujitsu.com/dmsp/Publications/public/pos-connectivity.pdf	

Packaging information

Packaging notes	printed user documentation is bleached in chlorine free process; Bulk packaging for projects (optional)	

Warranty

Warranty period	3 years
Warranty type	Next Business Day Onsite
Warranty Terms & Conditions	https://www.fujitsu.com/au/imagesgig5/Fujitsu-Computer-Products-Warranty-Information-2021%20AU.pdf
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
Service Lifecycle	5 years
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/

Recommended Accessories

Thunderbolt™ 4 Port Replicator		First Thunderbolt™ Port Replicator on the market providing enhanced security and full support of Intel® AMT (vPro®). The universal port can easily connect almost everything with a single cable and high speed data transfer. This smart workspace solution keeps your desk clean and tidy.
USB Type-C Port Replicator 2		Connect to your peripherals. Adapt to the task on demand. The universal USB Type-C interface supports you to get your peripheral devices connected easily. Multiply your USB ports to connect your peripherals as well as your external display via HDMI, DisplayPort or VGA. You also can charge your external USB devices without the need of any additional charger.
Mounting Kit for Height Adjustable FUJITSU Displays		The FUJITSU Mounting Kit for Height Adjustable FUJITSU Displays has been specifically designed for use with ESPRIMO Q/G Mini PCs, FUTRO Thin Clients and FUJITSU Displays. By mounting an ESPRIMO Mini PC or a FUTRO Thin Client behind a display, you can save space on the desk, reduce clutter on desk and realize a clean desk working environment.

More information

Fujitsu products, solutions & services

In addition to Fujitsu Desktop ESPRIMO G6012, 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 G6012, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

https://www.fujitsu.com/au/products/comp uting/pc/desktops/

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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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.