Datasheet Fujitsu Desktop ESPRIMO G9012



Fujitsu recommends Windows 11 Pro

A smart and ultra-compact Mini PC for advanced office needs

The Fujitsu ESPRIMO G9012 is a smart Mini PC which offers advanced Desktop PC functionality in an ultracompact, space-saving design. Making it a perfect device for working from home or in flexible workplaces with its single cable USB Type-C® connection. Provided with the latest 13th generation Intel® Core™ processors and Intel vPro® technology, the devices empower impressive performance/volume ratio.

A smart Mini PC with ultra-compact design

Eye-catching exclusive modern design

- Low noise Mini PC thus providing ergonomic, clean, and clutter-free working environment
- Offers advanced desktop PC functionality with a volume of only 0.87 liters
- Impressive performance/volume ratio and is easy to set up in minutes

Small in size but grand in performance

High performance in a small Mini PC design

- Latest Intel chipset technology and 13th generation Intel[®] Core[™] processor family
- With Intel vPro® version for latest out-of-band management features
- Next generation Intel integrated graphics

Flexibility without limits

Pleasant working environment due to quiet system

- Concept with different heights allows ODD and upgrade options like power supply and PCIe slot
- Flexibility for later device upgrades
- Various mounting options

Ultimate usability - Perfect fit for modern offices and workplaces

- Integrated into Fujitsu AIO Display P2410 enables a space saving all-in-one system
- Can be used for horizontal or vertical operations and easy upgrade of major components
- VESA mount for attaching the PC to displays, stands or walls
- Ideal device to use for home office scenarios due to its mobility and one cable solution

Low power consumption and environmental impact

Reduced environmental impact and reduced energy bills

Highly efficient AC adapter 80Plus PLATINUM or internal power supply as option









Specification

| | ESPRIMO G9012 | ESPRIMO G9012 ESTARx |
|----------------------------|---|---|
| Processor | Intel® Core™ i7-13700 processor (16 Co | res (8+8)/24 Threads, 2.1 GHz, 30 MB, Intel® UHD Graphics 770)**^ |
| | Intel® Core™ i5-13500 processor (14 Co | res (6+8)/20 Threads, 2.5 GHz, 24 MB, Intel® UHD Graphics 770)* |
| | Intel® Core™ i5-13400 processor (10 Co | ores (6+4)/16 Threads, 2.5 GHz, 20 MB, Intel® UHD Graphics 730)* |
| | Intel® Core™ i3-13100 processor (4 Cor | es/8 Threads, 3.4 GHz, 12 MB, Intel® UHD Graphics 730)* |
| | · | , |
| | Intel® Core™ i7-12700 processor (12 Cor | es(8+4)/20 Threads, 2.1 GHz, 25 MB, Intel® UHD Graphics 770) ** |
| | Intel® Core™ i5-12500 processor (6 Co | es/12 Threads, 3.0 GHz, 18 MB, Intel® UHD Graphics 770) * |
| | Intel® Core™ i5-12400 processor (6 Co | res/12 Threads, 2.5 GHz, 18 MB, Intel® UHD Graphics 730) * |
| | • | es/8 Threads, 3.3 GHz, 12 MB, Intel® UHD Graphics 730) * |
| | - | n Intel® Core™ i5-12500, i5-13500 and Intel® Core™ i7 processors |
| | | 0 (clock speed and performance will vary depending on workload and |
| | other variables) | o (clook speed and performance that tary depending on the medical and |
| | • | ology 3.0 (clock speed and performance will vary depending on |
| | workload and other variables) | ology olo (clock speed and performance with vary depending on |
| | ^90 Watt AC adapter is required for ma | ximum CPU performance |
| Operating systems | 70 Water to adapter is required for ma | Annoth of a performance |
| Operating | Windows 11 Pro. Windows 11 Home. | |
| system | Windows 10 Pro (Via Windows 11 Pro Do | owngrade Ontion) |
| pre-installed | Fujitsu recommends Windows 11 Pro fo | · · |
| pre-installed | r ofitso recommends windows in the re- | 1 DOSITIESS. |
| Memory modules | 16 GB (1 module(s) 16 GB) DDR4, unbuff | ered, non-ECC, 3,200 MT/s, SO DIMM. |
| | 8 GB (1 module(s) 8 GB) DDR4, unbuffe | red, non-ECC, 3,200 MT/s, SO DIMM |
| | 4 GB (1 module(s) 4 GB) DDR4, unbuffer | red, non-ECC, 3,200 MT/s, SO DIMM |
| Graphics | Entry 3D: NVIDIA® T600, 4 GB, PCIe > | (16, 4 x miniDP |
| • | Entry 3D: NVIDIA® T400, 4 GB, PCIe | d6, 3 x miniDP |
| | Others: MiniDP to DP Adapter Cable | |
| | *Optional in Int. PSU version | |
| HDD 2.5 inch size | HDD SATA III, 5,400 rpm, 1000 GB, 2.5-ii | nch HDD |
| 1100 2.0 111011 0.20 | SATA III, 5,400 rpm, 2000 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), SE | D |
| | SSD PCIe, 256 GB M.2 NVMe (Gen4), Va | lue, SED |
| Hard disk notes | One Gigabyte equals one billion bytes, | when referring to hard disk drive capacity. SSD |
| Trair a disk flotes | (Solid State Disk) | |
| | SED (Self-Encrypting Drive) | |
| | | |
| | | nt . |
| | 2.5-inch bay for devices with 7mm heig | nt facturer's indications on read and write cycles. |
| Ontical drive | 2.5-inch bay for devices with 7mm heig Durability in accordance with the manu | facturer's indications on read and write cycles. |
| Optical drive | 2.5-inch bay for devices with 7mm heig Durability in accordance with the manu DVD Super Multi ultra slim (tray), SATA (| facturer's indications on read and write cycles. optional) |
| Optical drive Wireless LAN | 2.5-inch bay for devices with 7mm heig Durability in accordance with the manu DVD Super Multi ultra slim (tray), SATA (Intel® Wi-Fi 6E AX211 (2x2/160) Gig+ and | facturer's indications on read and write cycles. |
| | 2.5-inch bay for devices with 7mm heig Durability in accordance with the manu DVD Super Multi ultra slim (tray), SATA (| facturer's indications on read and write cycles. optional) |

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| Expansion notes | The listed product components and optional | The listed product components and optional |
|-----------------|--|---|
| | functions are not available in all region/countries; | functions are not available in all region/countries; |
| | System is available in 3 different housing versions: Small | Energy Star certification only with Windows |
| | version (0.87 Liter) | operating system; |
| | ODD bay version (1.23 Liter) | Base unit for TCO Certified generation 9; |
| | Internal Power supply/ PCIe Slot version (1.85 Liter) | System is available in 3 different housing versions: |
| | | Small version (0.87 Liter) |
| | | ODD bay version (1.23 Liter) |
| | | Internal Power supply/ PCIe Slot version (1.85 Liter) |
| | | 1, 2 |

Base unit

| | ESPRIMO G9012 ESPRIMO G9012 ESTARX | |
|-------------------------|---|-----|
| Mainboard | | |
| Mainboard type | D4014-A (base system) | |
| Formfactor | Proprietary | |
| Chipset | Intel® Q670 | |
| 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 configura | |
| 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 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 | |
| | RAID 1/0 | |
| Interfaces | | |
| 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 Gen2x2 (20 Gbps) Type-C (provides up to 15W) | |
| USB rear | Base system: | |
| | 1x USB 2.0 Type-A (plus 2 ports optional*) | |
| | 3x 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**) | |

| | ESPRIMO G9012 | ESPRIMO G9012 ESTARX | |
|--------------------------------|--|-------------------------------------|--|
| DisplayPort | 1x (DisplayPort 1.4, DP++) (2nd port optional*, | | |
| | | | |
| 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). | | |
| Input device | | | |
| 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 op | tion with ODD bay housing version; | |
| M.2-2280 | 1x on mainboard (PCle 4.0 x4; up to 64Gbit/s) | | |
| Slots | | | |
| PCI-Express 3.0 x4 (mech. x16) | 1 x (168 mm / 6.61 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 | | |
| 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. Mu | ulti-Stream | |
| | HDMI™ 2.1 | | |
| | Digital audio formats are supported, including | Dolby Digital Plus (7.1 channels) | |
| 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 | | |
| Rated frequency range | 50 Hz - 60 Hz | | |
| Operating voltage range | 90 V - 264 V | | |

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|-----------------------------------|---|--|--|
| Operating line frequency range | 47 Hz - 63 Hz | | |
| Max. output of single | AC Adapter: 90 W | | |
| power supply | internal PLATINUM power supply (optional): 150 W | | |
| Noise emission | | | |
| Standard noise emission | According to ISO 7779:2010, ECMA-74 | | |
| Standard noise notes / | A-weighted sound power level Lwad (in B) / Wor | kplace related A-weighted sound pressure level LpAm (in | |
| description | dB(A)) | | |
| Dimensions / Weight / En | vironmental | | |
| 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 1 | 64.5 x 51 mm (5.77 x 6.48 x 2.01 inch) | |
| | With internal power supply / PCIe slot version, th | e dimensions are: | |
| | 146.5 x 176.9 x 71 mm (5.77 x 6.97 x 2.80 inch) | | |
| Operating position | Vertical / Horizontal (feet included) | | |
| Weight | Base: Min:0.86kg; 1x mem,1xSDD / Max:1.025kg; 2x mem,2xSSD,HDD,Flexi,WLAN | | |
| | ODD version: Min:1.2kg/Max:1.29kg | | |
| | Int. PSU version: Min:1.45kg/Max:1.59kg | | |
| | *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) | | |
| Compliance | | | |
| Model | MPCG | | |
| 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 | McΔfee® LiveSafe™ (provides award-winning and | ivirus protection for your PC and much more. 30 days tria | |
| (preinstalled) | pre-installed) | avisos protection for your FC and moch more, so days tha | |
| (p. 511 15 talled) | Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy Microsoft Office.) | | |

| | ESPRIMO G9012 ESTARX |
|----------------------|---|
| 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-installed Microsoft Office. Purchase and activation only in the region |
| | in which it was acquired.) |
| Additional software | Use of accompanying and/or additional Software is subject to proactive acceptance of the respective |
| (notes) | 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 | Embedded security (TPM 2.0) |
| Security | 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. |
| Manageability | |
| Manageability | DeskUpdate Driver management |
| technology | PXE 2.1 Boot code |
| 3, | Wake up from S5 (off mode) |
| | Intrusion switch |
| | WoL (Wake on LAN) |
| | Intel AMT 16.0 (depending on processor) |
| Manageability | DeskView Client |
| software | DeskView Instant BIOS Management |
| DeskView components | BIOS Management incl. Security |
| Desk view components | Inventory Management |

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|------------------------|--|----------------------|--|
| | 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 (ı | mm) 489 x 218 x 165mm | | |
| Max. quantity / pallet | 48 | | |
| Packaging material wei | ght 702g | | |
| Warranty | | | |
| Warranty Terms & | https://www.fujitsu.com/hk/ap/warranty | | |
| Conditions | | | |

More information

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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

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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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