

Fujitsu recommends Windows 11 Pro.

# Data Sheet

## Fujitsu Workstation CELSIUS H7613

For professionals who need real workstation power on the move!

The new Fujitsu Workstation CELSIUS H7613 delivers a perfect combination of power and mobility. With the latest Intel Core processors, NVIDIA professional graphics, anti-glare 4K display and an advanced suite of security features, including PalmSecure™, the CELSIUS H7613 helps you run with your creative ideas fast and secure, anywhere, anytime.

### Enhance Your Work Experience with Seamless Mobility

Unleash your creativity anywhere, be it in the office, at home, or on the go.

- Small footprint, slim, lightweight design for improved portability (<2.7kg / <30 mm)
- Ultimate display viewing experience - 4K HDR (800cd & 100% DCI-P3) or 2k (400cd)
- Anti-glare display with a modern, slim-bezel design that maximizes your viewing area
- Built-in infrared camera provides quick and easy way of logging into the system

Unleash pro-level performance anywhere with unparalleled mobility

Experience workstation power like never before, with unmatched mobility for pro-level performance on the go.

- Latest 13th generation Intel® Core™ processors (i7 or i9) offer unmatched speed and performance
- Power up your ideas and creative workflows with NVIDIA® RTX 3500 Ada graphics
- Windows 11 Pro support
- Up to 128GB DDR5 memory (ECC optional)
- Massive storage capabilities supported by 3x M.2 Storage options
- Support for Intel® Gaussian & Neural Accelerator (Intel® GNA) feature

Seamlessly connected and highly usable for optimal productivity

Enjoy effortless connectivity and superior usability, ensuring you stay connected and productive no matter where you are.

- Latest Intel® Thunderbolt™ 4 technology and USB ports for high-speed file transfer and fast charging, and to keep you connected to external monitors and other accessories
- 2x Thunderbolt 4 interfaces, Type-C
- Wide range of interfaces with full-size LAN 2,5 Gbit/s connector, full-size HDMI and Thunderbolt Type-C connector

Enhanced security measures for unparalleled data protection

Safeguard your enterprise data from unauthorized access with advanced security features. Bid farewell to password concerns as you benefit from three distinctive biometric login options.

- Infrared FHD webcam (IR Hello Cam): Allows face recognition with Windows Hello
- Fingerprint sensor or PalmSecure (optional)
- Built-in Privacy Camera Shutter: For protecting your privacy
- Integrated SmartCard Reader Slot



# Components

|  |   |
|--|---|
| Base unit  | CELSIUS H7613 ESTAR   |
| <b>Operating systems</b>   |   |
| Operating system pre-installed   | Windows 10 Pro. Fujitsu recommends Windows 11 Pro for business.<br>Windows 11 Pro. Fujitsu recommends Windows 11 Pro for business.  |
| Microsoft OS support information   | Windows 11 requires for first device setup:<br>- Internet connectivity<br>- Microsoft account for Home editions or organizational account (e.g. ADD) for Pro editions<br>After product end of life, Fujitsu continues to test and support new Windows releases for max. 5 years, depending on extension of hardware services through warranty top ups.<br>For more details please visit our Fujitsu Service Statement under <a href="https://support.ts.fujitsu.com/IndexProdSupport.asp?lng=com&amp;OpenTab=">https://support.ts.fujitsu.com/IndexProdSupport.asp?lng=com&amp;OpenTab=</a> |
| Operating system notes   | The use of Windows Operating System is subject to acceptance of the End User License Agreement of Microsoft as applicable under the relevant Microsoft program.   |
| Please note that only certain combinations of processors, graphics and displays can be ordered |   |
| <b>Processor</b>   | Intel® Core™ i9-13950HX processor (24 Cores (8+16) / 32 Threads, 4.0 GHz, up to 5.5 GHz, NVIDIA® RTX™ 3500 Ada)<br>Intel® Core™ i7-13850HX processor (20 Cores (8+12) / 28 Threads, 3.8 GHz, up to 5.3 GHz, NVIDIA® RTX™ 2000 Ada)<br>Intel® Core™ i7-13850HX processor (20 Cores (8+12) / 28 Threads, 3.8 GHz, up to 5.3 GHz, NVIDIA® RTX™ A1000)  |
| <b>Memory modules</b>  | 16 GB (2 module(s) 8 GB) DDR5, 4,000 MT/s, DIMM<br>32 GB (2 module(s) 16 GB) DDR5, 4,000 MT/s, DIMM<br>64 GB (2 module(s) 32 GB) DDR5, 4,000 MT/s, DIMM<br>64 GB (2 module(s) 32 GB) DDR5, ECC, 4,000 MT/s, DIMM<br>128 GB (4 module(s) 32 GB) DDR5, ECC, 3,600 MT/s, DIMM  |
| <b>Hard disk drives (internal)</b>   | PCIe-SSD, 512 GB M.2 NVMe module, SED<br>PCIe-SSD, 1 TB M.2 NVMe module, SED<br>PCIe-SSD, 2 TB M.2 NVMe module, SED<br>PCIe-SSD, 4 TB M.2 NVMe module, SED  |
| Hard disk notes  | Accessible capacity may vary, also depending on used software.  |
| <b>Interface add on cards/components (optional)</b>  |   |

# Base unit

|                               |                         |
|-------------------------------|-------------------------|
| Base unit                     | CELSIUS H7613 ESTAR     |
| <b>Mainboard</b>              |                         |
| Chipset                       | Intel® WM790            |
| Chipset notes                 | Intel® vPro™ technology |
| Supported capacity RAM (min.) | 8 GB                    |

**Mainboard**

|                               |  |
|-------------------------------|--|
| Supported capacity RAM (max.) | 128 GB   |
| Memory slots                  | 4 SO DIMM (DDR5) ECC/nonECC  |
| LAN                           | Gigabit Ethernet (10/100/1,000 Mbit/s, 2,5 Gbps) Intel® I226LM   |
| Integrated WLAN               | Intel WiFi 6E AX211 - WLAN, BT, SRD cat. 2   |
| BIOS version                  | UEFI Specification 2.8   |
| BIOS features                 | InsydeH2O BIOS   |
| Audio type                    | On board   |
| Audio codec                   | Realtek ALC257 with MaxxAudio  |
| Audio features                | Stereo speakers, 2 digital microphones   |
| MIL-STD tested                | Yes, selected MIL-STD-810H tests passed.<br>MIL-STD-810H test results are not a guarantee of future performance under identified test conditions.<br>Accidental damage is not covered under standard international limited warranty. |

**Display**

|                               |  |
|-------------------------------|--|
| Diagonal Size                 | 40.6 cm (16-inch)  |
| Display Technology            | LED backlit  |
| Display type                  | Anti-glare IPS display   |
| Resolution (native)           | 2560 x 1600 (WQXGA) / 3840 x 2400 (WQUXGA)                     |
| Aspect ratio                  | 16:10  |
| Brightness - typical          | [WQXGA] 400 cd/m <sup>2</sup> / [WQUXGA] 800 cd/m <sup>2</sup> |
| Contrast - typical            | 1300:1 typ. (WQUXGA and WQXGA)                                 |
| Viewing angle (h/v) - typical | 178°/178°  |

**Graphics**

|           |                     |
|-----------|---------------------|
| Base unit | CELSIUS H7613 ESTAR |
|-----------|---------------------|

**Interfaces**

|                             |  |
|-----------------------------|--|
| DC-in                       | 1x   |
| Audio: line-in / line-out   | 1  |
| Internal microphones        | 2x digital array microphones   |
| Internal speakers           | 2  |
| USB 3.2 Gen1 (5 Gbps) total | 2x Type-A (with Anytime USB charge functionality) / 1x Type-C  |
| Thunderbolt™ 4 total        | 2x Type-C (40Gbps, Power Delivery (15W), DP 1.4a)  |
| HDMI                        | 1 (supports external display up to 5120x2880 dots@60Hz as specified in v2.1)   |
| Ethernet (RJ-45)            | 1x   |
| Memory card slots           | 1 (USH-II) SD 4.0 Standard<br>SD/microSD card<br>SDHC/microSDHC card<br>SDXC/microSDXC card<br>Speed Class: up to UHS-II |
| SmartCard slot              | 1x   |
| Interface Module notes      | 1x Kensington Lock support   |
| Kensington Lock support     | 1 - Recommendation: Kensington's Micro Security Saver  |

**Port Replicator interfaces (optional)**

|                 |                                |
|-----------------|--------------------------------|
|                 | Thunderbolt™ 4 PR              |
| DC-in           | 1 (20V/170W required)          |
| Power on switch | 1                              |
| Audio: comments | 1 Combo jack for headset usage |
| DisplayPort     | 2x V1.4++                      |
| HDMI text       | V 2.0b                         |

**Port Replicator interfaces (optional)**

|                         |  |
|-------------------------|--|
| Interface Notes         | 2x Type-A - 5V/0.9A, 4.5W<br>1x Type-A - 5V/2.4A, 12W<br>2x Type-C - 5V, 1.5A/4.5W charging port<br>1x Type-C - TBT4 up to 60 W (PD v2.0-1.1), 5-20V/3.0A upstream (PC), Intel AMT support (vPRO)<br>1x Type-C - TBT4 up to 15 W (PD v2.0-1.1), 5V/3.0A downstream, power output to client |
| Kensington Lock support | 1  |
| Ethernet (RJ-45)        | 1 (10/100/1000 Mbit/s, 2,5 Gbps)   |
| Notes                   | Number of simultaneous used displays and its possible resolutions and frequencies depend on mobile system and display interface type.<br>Please consult always also the manual of the connected client.  |

Keyboard w/o touchstick (spill-resistant), Backlit keyboard w/o touchstick (spill-resistant)

Number of keyboard keys: 106, Keyboard pitch: 18.4 mm, Keyboard stroke: 1.7 mm

Multi gesture touchpad with three mouse buttons

**Antennas**

|                 |  |
|-----------------|--|
| Bluetooth       | V5.2 is hardware ready but may run at lower version due to OS limitation |
| Integrated WLAN | Intel WiFi 6E AX211 - WLAN, BT, SRD cat. 2                               |
| NFC             | No   |

RAID support 0,1

**Power supply**

|                       |  |
|-----------------------|--|
| AC adapter            | 19.5 V / 230 W (11.8 A)  |
| Rated voltage range   | 100 V - 240 V (AC Input)   |
| Rated frequency range | 50 Hz - 60 Hz  |
| 1st battery           | Li-Ion battery 6-cell, 94.95 Wh, 8264 mAh  |
| Runtime 1st battery   | up to 8 hours (preliminary, depending on configuration)  |
| Battery notes         | Battery runtime information is based on worldwide acknowledged BAPCo® MobileMark® 2018. Refer to <a href="http://www.bapco.com">www.bapco.com</a> for additional details.<br>The BAPCo® MobileMark® Benchmark provides results that enable direct product comparisons between manufacturers. It does not guarantee any specific battery runtime which actually can be lower and may vary depending on product model, configuration, application and power management settings. The battery capacity decreases slightly with every re-charge and over its lifetime. |

**Dimensions / Weight / Environmental**

|                               |  |
|-------------------------------|--|
| Dimensions (W x D x H)        | 370,0 x 264.5 x 26.4 mm (front) / 29.8 mm (rear) mm<br>14,57 x 14.41 x 1.04 / 1.17 (front/rear) inch |
| Weight                        | from 2.53 kg   |
| Weight (lbs)                  | from 5.58 lbs  |
| Weight notes                  | Weight may vary depending on actual configuration  |
| Operating ambient temperature | 5 - 35 °C (41 - 95 °F)   |
| Operating relative humidity   | 20 - 80 % (relative humidity, non-condensing)  |

**Compliance**

|                 |  |
|-----------------|--|
| Product         | CELSIUS H7613 ESTAR  |
| Model           | 7H16A4   |
| Europe          | CE Marking   |
| USA/Canada      | cULus<br>FCC Class B part 15C/E + 22 + 24 (depending on wireless configuration)  |
| Global          | RoHS (Restriction of hazardous substances)<br>WEEE (Waste electrical and electronic equipment)<br>Microsoft Operating Systems (HCT / HCL entry / WHQL)<br>ENERGY STAR® 8.0<br>EPEAT® Gold (dedicated regions)<br>TCO Certified 9.0 |
| Compliance link | <a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>  |

### Additional Software

|                                    |   |
|------------------------------------|---|
| Additional software (preinstalled) | Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy Microsoft Office.)<br>McAfee® LiveSafe™ (provides award-winning antivirus protection for your PC and much more. 30 days trial pre-installed)<br>Fujitsu Plugfree Network (network management utility)<br>Fujitsu Anytime USB Charge Utility<br>Fujitsu Function Manager<br>Fujitsu Battery Utility<br>Fujitsu DeskUpdate (driver and utility tool)   |
| Additional software (optional)     | Recovery DVD for Windows®<br>Drivers & Utilities DVD (DUDVD)<br>CyberLink YouCam (webcam software)<br>Microsoft® Office Professional 2021<br>Microsoft® Office Home and Business 2021<br>(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.   |
| Supported ISV Applications         | AllPlan GmbH - AllPlan <sup>1</sup><br>Dassault Systèmes® CATIA™ <sup>1</sup><br>Dassault Systèmes® SOLIDWORKS® <sup>1</sup><br>PTC® Creo® <sup>1</sup><br>Siemens Digital Industries - NX <sup>1</sup><br>Siemens Digital Industries - Solid Edge <sup>1</sup><br>Adobe® After Effects® <sup>2</sup><br>Adobe® Dreamweaver® <sup>2</sup><br>Adobe® Illustrator® <sup>2</sup><br>Adobe® InDesign® <sup>2</sup><br>Adobe® Photoshop® <sup>2</sup><br>Adobe® Premiere® Pro <sup>2</sup><br>Autodesk® AutoCAD® <sup>2</sup><br>Autodesk® Inventor® <sup>2</sup><br>Autodesk® Maya® <sup>2</sup><br>Autodesk® Revit® <sup>2</sup><br>Autodesk® VRED® <sup>2</sup><br>Bentley OpenComms™ Designer <sup>2</sup> |
| Supported ISV Applications (notes) | <sup>1</sup> System certification (for selected configurations)<br><sup>2</sup> ISV support given via usage of certified graphic card<br>Please refer to the ISV documentation ( <a href="https://sp.ts.fujitsu.com/dmsp/Publications/public/wp-FUJITSU-Workstation-CELSIUS-ISV-overview.pdf">https://sp.ts.fujitsu.com/dmsp/Publications/public/wp-FUJITSU-Workstation-CELSIUS-ISV-overview.pdf</a> ) for further details and current status on system ISV certifications.   |

### Manageability

|                          |  |
|--------------------------|--|
| Manageability technology | Intel® vPro™ technology/iAMT (depending on processor)<br>PXE Boot code<br>Wake-on-LAN  |
| Manageability software   | DeskView Client<br>DeskView Instant BIOS Management  |
| DeskView components      | Inventory Management<br>BIOS Management<br>Driver Management<br>Security Management<br>Alarm Management  |
| Supported standards      | WMI (Windows Management Instrumentation)<br>PXE (Preboot Execution Environment)<br>DMI (Desktop Management Interface)<br>SMBIOS (System Management BIOS)<br>CIM (Common Information Model)<br>BootP (made4you) |
| Manageability link       | <a href="https://www.fujitsu.com/global/products/computing/pc/manageability/">https://www.fujitsu.com/global/products/computing/pc/manageability/</a>  |
| Physical Security        | Kensington Lock support  |

|                          |   |
|--------------------------|---|
| System and BIOS Security | User and supervisor BIOS password<br>EraseDisk  |
| User Security            | Embedded fingerprint sensor (optional)<br>Embedded PalmSecure® sensor (optional)<br>Smartcard reader (optional)<br>TPM 2.0<br>Hard disk password  |
| 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. |

### Warranty

|                             |  |
|-----------------------------|--|
| Warranty period             | 3 years  |
| Warranty type               | Next Business Day On-site Service (metro areas only)   |
| Warranty Terms & Conditions | <a href="http://www.fujitsu.com/warranty">http://www.fujitsu.com/warranty</a>  |
| 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: <a href="https://support.ts.fujitsu.com/">https://support.ts.fujitsu.com/</a> 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 | at least 5 years after shipment, for details see <a href="https://support.ts.fujitsu.com/">https://support.ts.fujitsu.com/</a>                |
| Service Weblink          | <a href="http://www.fujitsu.com/emeia/products/product-support-services/">http://www.fujitsu.com/emeia/products/product-support-services/</a> |

## 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.

Order Code:  
FPCPR401BP

# More information

## Fujitsu products, solutions & services

In addition to the Fujitsu Workstation CELSIUS H7613, 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/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about the Fujitsu Workstation CELSIUS H7613, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/emeia/CELSIUS](http://www.fujitsu.com/emeia/CELSIUS)

## 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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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.

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The overall product has been designed and manufactured for general office use, regular personal use and ordinary industrial use.

## Contact

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2023-06-14 EM-EN

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