

Datasheet

Fujitsu

Mobile Workstation

CELSIUS H7613 ESTARx



Fujitsu recommends Windows 11 Pro

Excellent Combination of Portability and Power

Fujitsu's latest 16" mobile workstation - CELSIUS H7613 ESTARx, equipped with a stunning 16:10 WQUXGA (3840 x 2400) LCD display, triple SSDs storage, latest DDR5 ECC memory and powerful NVIDIA RTX 3500 ADA graphic card. You can always work on your professional works and modelling fast, anywhere, anytime. CELSIUS H7613 ESTARx is the mobile workstation you definitely need for your daily design routine.

True Power

Mobile workstation raging with performance

- Latest 13th Gen Intel® Core™ HX-series processors up to i9-13950HX (24 cores, running at 5.5 GHz)
- Intel® Core™ vPro® Enterprise technology to secure and manage a hybrid workforce
- Up to 128GB DDR5 ECC memory
- Up to Triple M.2 SSDs PCIe Gen4 SSD for swift data processing in CAD applications
- Up to NVIDIA® Quadro® RTX 3500 ADA graphic card for engineers and designers to work without limits
- RAID 1 PCIe Gen4 SSD configuration preventing data loss and failure
- Up to 16:10 WQUXGA (3,840 x 2,400) display with 100% DCI-P3, 96% NTSC and 800cd² brightness
- Dual fans cooling solution maximizes airflow and CPU performance
- Up to 8 hours battery life with 94.95 Wh

Ultimate User experience

Complete port connectivity for different expansion scenario

- 16" 4K stunning display for viewing technical drawings or modelling
- 2x Thunderbolt™ 4 (USB Type-C®) connector offer high speed of data transferring CAD design materials
- Full monitor connectivity support with full-sized HDMI for you to work straightaway with no hassle
- Support Thunderbolt™ 4 Port Replicator for further connectivity expansion
- Durable chassis complies with MIL-STD-810H standard

Ease of Upgradability

Instant upgrade via service door

- SSD and memory can be upgraded easily via service door whenever you needed

Maximum Security

Data security and peace of mind

- Integrated PalmSecure™ or Fingerprint sensor
- Infrared FHD webcam allows face recognition with Windows Hello
- EraseDisk ensures secure data deletion
- Privacy camera shutter to prevent others from illegally peeking through the lens
- TPM 2.0 for secure data processing



Specification

Processor	Intel® Core™ i9-13950HX processor (24 Cores, up to 5.5 GHz) Intel® Core™ i7-13850HX processor (20 Cores, up to 5.3 GHz)
Operating systems¹	Windows 11 Pro. Fujitsu recommends Windows 11 Pro for business. Windows 10 Pro through Windows 11 Pro downgrade rights
Memory	16GB (8GB x2) DDR5 4000 MHz 32GB (16GBx2) DDR5 4000 MHz 64GB (16GBx4) DDR5 3600 MHz 64GB (32GBx2) DDR5 4000 MHz ECC 128GB (32GBx4) DDR5 3600 MHz ECC
Internal Storage²	4TB, Gen4 Performance PCIe-SSD M.2 2280 NVMe module, SED 2TB, Gen4 Performance PCIe-SSD M.2 2280 NVMe module, SED 1TB, Gen4 Performance PCIe-SSD M.2 2280 NVMe module, SED 512GB, Gen4 Performance PCIe-SSD M.2 2280 NVMe module, SED 256GB, Gen4 Value PCIe-SSD M.2 2280 NVMe module, SED RAID1 SSD 2x 1TB, Performance PCIe-SSD M.2 2280 NVMe module, SED RAID1 SSD 2x 2TB, Performance PCIe-SSD M.2 2280 NVMe module, SED
Graphics³	NVIDIA® RTX 3500 ADA 12GB NVIDIA® RTX 2000 ADA 8GB NVIDIA® RTX A1000 6GB (Please note that only certain combinations of processors, graphics and displays can be ordered)
Camera	Built-in FHD IR Webcam with privacy shutter. Windows Hello supported.

Base Units

Mainboard	
Chipset	Intel® WM790
Supported capacity RAM (min.)	8GB
Supported capacity RAM (max.)	128GB
Memory slots	4 SO DIMM (DDR5)
LAN	Gigabit Ethernet (10/100/1,000 Mbit/s, 2.5 Gbps) Intel® I226LM
Integrated WLAN	Intel® Wi-Fi 6E AX211 - Bluetooth 5.2 (depends on OS support), SRD cat.2 (6E frequency only in dedicated regions)
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. MIL-STD-810H test results are not a guarantee of future performance under identified test conditions. Accidental damage is not covered under standard international limited warranty.
Display	
Diagonal Size	16-inch (40.6 cm)
Display Technology	LED backlit
Display type	Anti-glare display
Resolution (native)	2560 x 1600 (WQXGA) / 3840 x 2400 (WQUXGA)
Aspect ratio	16:10
Brightness - typical	(WQXGA) 400 cd/m ² / (WQUXGA) 800 cd/m ²
Contrast - typical	1300:1 typ. (WQUXGA and WQXGA)
Viewing angle (h/v) - typical	178°/178°
Color Gamut	(WQXGA) 100% sRGB, 72% NTSC / (WQUXGA) 100% DCI-P3, 96% NTSC
Interfaces	
DC-in	1
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)	1
Memory card slots	1 x (UHS-II) SD 4.0 Standard
SmartCard slot	1
Keyboard and Pointing Device	US Keyboard / Taiwan Keyboard (Backlit) Number of keys: 105, Keyboard pitch: 18.4mm, Keyboard stroke: 1.7mm Multi gesture touchpad with two mouse buttons

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Security	
Security	Integrated Fingerprint sensor (Optional) Integrated PalmSecure™ palm vein sensor (Optional) Trusted Platform Module (TPM 2.0) (Optional) Integrated Smartcard reader Fujitsu EraseDisk Fujitsu AuthConductor™ Client Basic Fujitsu BIOS/Hard Disk password protection Kensington lock slot (lock to be purchased separately)
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
Battery⁴	Li-Ion battery 6-cell, 94.95 Wh, 8264 mAh
Battery Runtime	Up to 8 hours (preliminary, depending on configuration)
Dimensions / Weight / Environmental	
Dimensions (W x D x H)⁵	370 x 264.5 x 26.4 mm
Weight	Starting at 2.56Kg (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 ESTARx
Model	7H16A4
Global	RoHS (Restriction of hazardous substances) ENERGY STAR® 8.0 CE CB CCC BSMI IMDA MIL-STD-810H compliant* *MIL-STD-810H test results are not a guarantee of future performance under identified test conditions.
Additional	
Manageability	WOL, WOM, PXE, WFM 2.0 Compliant DMI
Additional Software	Fujitsu USB Type-C® charge and feeding power utility Fujitsu Battery Utility Fujitsu Function Manager Fujitsu DeskUpdate (driver and utility tool) Microsoft Office (free 30-day trial) Fujitsu LIFEBOOK Application Panel Fujitsu Mic Mute Utility Waves MaxxAudio Fujitsu Pointing Device Utility
Warranty	Please visit: https://www.fujitsu.com/hk/ap/warranty *Accidental damage is not covered under standard limited 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.

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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. 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. Windows 11 requires for first device setup: - Internet connectivity - Organizational account for Pro editions. 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. ⁴ Battery runtime information is based on worldwide acknowledged BAPCo[®] MobileMark[®] 2018 (office productivity). Refer to www.bapco.com for additional details. 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. For more detail, please contact Fujitsu sales specialist. ⁵ The stated thickness does not include rubber feet.

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