

# Data Sheet

## Fujitsu CELSIUS H780

### Mobility. Security. Virtual Reality.

Meet the FUJITSU CELSIUS H780, the world's first 39.6 cm (15.6-inch) mobile workstation combining ultimate security with future technologies. While creatives and innovators are working on increasingly huge datasets, this machine will not weigh them down when showcasing designs in virtual reality at events or at the customer site.

#### Need For Speed

When true workstation performance meets the elegant style of a laptop

- Choose between Intel® Core™ processors or powerful Intel® Xeon® processor E-2100M family supporting ECC memory
- Windows 10 Pro support
- Full HD LED anti-glare displays (incl. touch option)
- Up to 64 GB DDR4 2400 MHz memory (ECC optional)
- Dual M.2 PCIe-SSD NVMe technology supports quick loading of core applications



#### Full connectivity and worry-free docking experience

No compromise in terms of connectivity, regardless of whether you are away, in a meeting or at your desk

- Choice of port replicators with mechanical or Thunderbolt™ 3 connector
- Mechanical port replicator: Offering charging capabilities for the mobile workstation.
- Thunderbolt™ 3 port replicator: 2x USB Type-C™ connector offering speed up to 40Gbps, and charging capabilities of up to 15 W for e.g. mobile phone or power bank. The mobile workstation requires a power supply with at least 230 W.
- Full monitor connectivity support: 1x VGA and 1x HDMI.

#### Mobility Meets Security

Data security and peace of mind

- Optional PalmSecure™, a leading-edge highly secure authentication system using biometric technology that authenticates users through vein pattern recognition
- Integrated SmartCard reader
- TPM 2.0 and Advanced Theft Protection

#### We are (VR) ready

Architects, engineers and designers can now showcase their work in a real-time, fully immersive VR environment

- Powered by the NVIDIA® Quadro® P3200 VR-ready graphics card
- Ideal for mobile VR showcases at the customer site or at an event
- Easy connectivity of the head-mount display to the HDMI port



# Components

Base unit	CELSIUS H780
Operating system preinstalled	
Operating system pre-installed	Windows 10 Pro. Fujitsu recommends Windows 11 Pro for business.
Operating system notes	Certified for SUSE Enterprise Desktop
	Intel® Core™ i7-8850H processor (6 Cores / 12 Threads, 2.60 GHz, up to 4.3 GHz) *
	Intel® Core™ i7-8750H processor (6 Cores / 12 Threads, 2.20 GHz, up to 4.1 GHz) *, **
	Please note that only certain combinations of processors, graphics and displays can be ordered
	*with Intel® Turbo Boost Technology 2.0 (clock speed and performance will vary depending on workload and other variables)
	**not for corporate projects (only for retail, SMB, education and government)
	Entry 3D: NVIDIA® Quadro® P600, 4 GB (GDDR5), 384 CUDA® Processing Cores
	Entry 3D: NVIDIA® Quadro® P1000, 4 GB (GDDR5), 512 CUDA® Processing Cores
	Midrange 3D: NVIDIA® Quadro® P2000, 4 GB (GDDR5), 768 CUDA® Processing Cores
	Midrange 3D: NVIDIA® Quadro® P3200, 6 GB (GDDR5), 1792 CUDA® Processing Cores
Memory modules	8 GB (1 module(s) 8 GB) DDR4, 2,400 MT/s, PC4-2400, SO DIMM
	16 GB (2 8 GB) DDR4, ECC, 2,400 MT/s, PC4-2400, SO DIMM
Memory modules	16 GB (2 module(s) 8 GB) DDR4, 2,400 MT/s, PC4-2400, SO DIMM
	32 GB (2 16 GB) DDR4, ECC, 2,400 MT/s, PC4-2400, SO DIMM
Memory modules	32 GB (2 module(s) 16 GB) DDR4, 2,400 MT/s, PC4-2400, SO DIMM
Hard disk drives (internal)	SSD SATA III, 512 GB, M.2 module, SED
	SSD SATA III, 256 GB, M.2 module, SED
	PCIe-SSD, NVMe, 1024 GB Highend, M.2 module
Hard disk drives (internal)	PCIe-SSD, NVMe, 512 GB Highend, M.2 module, SED
	PCIe-SSD, NVMe, 512 GB Highend, M.2 module
	PCIe-SSD, NVMe, 256 GB Highend, M.2 module
	HDD SATA III, 5,400 rpm, 1000 GB
	HDD SATA III, 5,400 rpm, 500 GB
Hard disk drives (internal)	
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software.
Interface add on cards/components (optional)	
3G/4G (optional)	Sierra Wireless EM7455 (Cat. 6)
Multimedia	
Camera	Built-in webcam (Full HD) with Status LED

## Base unit

Base unit	CELSIUS H780
Mainboard	
Chipset	Intel® QM370 or CM246 (depending on CPU)
Chipset notes	Intel® vPro™ technology dependent on processor type
Supported capacity RAM (min.)	8 GB
Supported capacity RAM (max.)	64 GB

**Mainboard**

Memory slots	4 SO DIMM (DDR4, 2400 MHz)
LAN	10/100/1,000 MBit/s Intel® I219LM
Integrated WLAN	Intel Dual Band Wireless-AC9560
BIOS features	InsydeH2O BIOS
Audio type	On board
Audio codec	Realtek ALC255 with MaxxAudio
Audio features	Stereo speakers, 2 digital microphones
MIL-STD tested	Yes, selected MIL-STD-810G tests passed. MIL-STD-810G test results are not a guarantee of future performance under identified test conditions. Accidental damage is not covered under standard international limited warranty.

**Display**

Display notes	ISO 9241-307 - Pixel class II - anti-glare level
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**Graphics**

Base unit	CELSIUS H780
Max. resolution external display	up to 4,096 x 2,160 @ 60 Hz
Max. resolution display port	3,840 x 2,160 pixel via DisplayPort and Type-C and 1,920 x 1,200 pixel via VGA

**S26391-K481-V100 CELSIUS H780**

DC-in	1x
Audio: line-in / line-out	1
Internal microphones	2x digital array microphones
Internal speakers	2
USB 3.1 Gen1 (USB 3.0) total	1x (type A) power off charge
USB 3.1 Gen2 total	2x (type A)
USB Type-C	2 (USB 3.1 Gen2 (10 Gbps), Thunderbolt 3 (20/40Gbps), Power Delivery (15W), DP 1.4)
VGA	1x
HDMI	1
Ethernet (RJ-45)	1x
SmartCard slot	1x
SIM card slot	1
Multicardreader	1x (SD/SDXC, UHS-II support) SD/microSD = 2GB, SDHC/micro SDHC = 32GB, SDXC = 512GB
Interface Module notes	1x Kensington Lock support, 1x Docking connector

**Port Replicator interfaces (optional)**

Notes	Thunderbolt Port Replicator	Mechanical Port Replicator
DC-in	1x	1x
Power on switch	---	1
Audio: line-in / microphone	1x	1x
Audio: line-out / headphone	1x	1x
USB 2.0 total	2x	---
USB 3.1 Gen1 (USB 3.0) total	2x	6x (4x USB Type-A, 2x USB Type-C)
DisplayPort	2x (1x through from TBT3 TypeC, 1x via internal DP-Splitter), resolution up to 3840 x 2160; no DP++ support	2x, resolution up to 3840 x 2160, 16M colors, 60Hz
VGA	1x (via TBT3 internal DP-splitter) resolution up to 1920 x 1200, 16M colors, 60Hz	1x resolution up to 1920 x 1200, 16M colors, 60Hz
DVI	1x (via TBT3 internal DP-splitter) resolution up to 1920 x 1200, 16M colors, 60Hz	1x resolution up to 1920 x 1200, 16M colors, 60Hz
Interface Notes	at least 230W power supply required for mobile workstation	DisplayPort next to USB and HDMI at Mobile WORKSTATION sharing the same channel (only one connection at a time possible); Dock DP2, CRT, DVI ports will share the same DP port bandwidth with VM3332

**Keyboard**

Keyboard w/o touchstick (spill-resistant), Keyboard w/ touchstick  
 Number of keyboard keys: 106, Keyboard pitch: 18.4 mm, Keyboard stroke: 1.7 mm  
 Touchpad with three mouse buttons

**Input devices (optional)**

TouchStick

**Antennas**

Bluetooth 5.0

Integrated WLAN Intel Dual Band Wireless-AC9560

**Fast IDE/Ultra DMA-100**

SATA RAID support 0,1

**AC Adapter**

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 1st Li-Ion battery 8-cell, 96 Wh, 6700 mAh

Runtime 1st battery up to 12 hours (depending on configuration)

Battery charging time up to 80% within 1.3 hrs; up to 100% within 2.5hrs.

**Dimension with stand (W x D x H)**

Dimensions (W x D x H) 380.0 x 258.0 x 31.9 mm  
 14.96 x 10.16 x 1.26 inch

Weight from 2.7 kg

Weight (lbs) from 5.95 lbs

Weight notes Actual weight may vary depending on configuration

Operating ambient temperature 5 - 35 °C (41 - 95 °F)

Operating relative humidity 20 - 80 % (relative humidity, non-condensing)

Product CELSIUS H780

Europe CE Marking

USA/Canada cULus  
 FCC Class B part 15C/E + 22 + 24 (depending on wireless configuration)

Global RoHS (EU & China)  
 ENERGY STAR® 7.0

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)  
 Fujitsu Display Manager  
 EasyGuide online user documentation  
 Power Saving Utility  
 ShockSensor Utility  
 SmartAccess  
 Fujitsu Plugfree Network (network management utility)  
 Intel® SBA (manageability suite for local administration)  
 DTS® Sound Enhance Software  
 Fujitsu Application Button Utility  
 Fujitsu DeskUpdate (driver and utility tool)  
 Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy Microsoft Office.)



Additional software (optional) Drivers & Utilities DVD (DUDVD)  
 LTE / UMTS Connection Manager (if configured with 4G/LTE or 3G/UMTS)  
 Workplace Protect (secure authentication solution)

**Manageability****Security**

Physical Security Kensington Lock support

Security	
System and BIOS Security	Advanced Theft Protection Computrace® enabled BIOS EraseDisk (optional) Write protect option for the Flash EPROM Trusted Platform Module (TPM 2.0) Credential Guard Ready and Device Guard Capable (Windows 10, v. 1809; requires 8 GB or more system RAM and SSD PCIe NVME)
User Security	Embedded fingerprint sensor (optional) Embedded PalmSecure™ sensor (optional) Separate SmartCard slot Hard disk password User and supervisor BIOS password Preboot Authentication with SystemLock 3
Warranty	
Warranty period	3 years (depending on country)
Warranty type	Bring-in Service / Collect & Return Service (depending on country)
<b>Product Support - the perfect extension</b>	
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>

## Recommended Accessories

CELSIUS® H780 Port Replicator Kit 	Flexibility, expandability, desktop replacement, investment protection – to name just a few benefits of Fujitsu’s docking options.	Order Code: S26391-F2249-L300
Privacy Filters 	To use privacy filters is a must in times of increased safety requirements. Fujitsu’s Privacy Filters block unauthorized views on your screen while you are sitting in an external meeting or working in a train. The front view remains clear for the user’s eyes only. The filters are easy to attach and what’s more: They also protect your screen from small scratches and damages.	Order Code: S26391-F6098-L215
Prestige Case 15 (2021) 	The Prestige Case 15 protects notebooks with up to 15.6-inch screens. The front compartment provides space for your power cord and office supplies. The large compartment is divided for your notebook and a tablet.	Order Code: S26391-F1120-L60
Prestige Trolley 17 	The Fujitsu Prestige Trolley 17 protects and transports notebooks with up to 17 inch screens, along with clothes and toiletries. It is the perfect companion in a city environment or for overnight stays with four spacious compartments. Smooth running wheels and a telescopic handle ensure convenience, while the central section protects your notebook with shock-absorbing foam.	Order Code: S26391-F1194-L130

Display P27-8 TS UHD



The FUJITSU Display P27-8 TS UHD is perfect for multi-monitor use scenarios with its 3840 x 2160 Ultra HD resolution and the thin bezel housing. The monitor has a 78°/178° wide viewing angle and a 100% sRGB color space to deliver you a consistent high picture quality. Features like ECO function, the DisplayView™ IT Suite manageability software as a range of connectivity options meet the requirements of medium- and large-sized businesses.

Order Code:  
S26361-K1610-V160

# More information

In addition to Fujitsu CELSIUS H780, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

**Dynamic Infrastructures**  
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

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

## More information

Learn more about the FUJITSU Workstation CELSIUS H780, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.fujitsu.com>

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