

Fujitsu recommends Windows 10 Pro.

# Data Sheet

## FUJITSU Workstation CELSIUS H980

### Bringing VR to the Streets

Ever wished your laptop could go the distance, even into the future? The FUJITSU CELSIUS H980 17.3-inch mobile workstation pushes the limits in terms of security, graphics capabilities, storage and connectivity. Do your post-productions in the field, create astounding designs and visualize them in a fully immersive, real-time VR environment.

#### No limits - desktop workstation replacement at your fingertips

Enjoy the best out of two worlds: workstation performance and notebook portability - at your desk or on the go

- Choose between Intel® Core™ processors or powerful Intel® Xeon® processor E-2100M family supporting ECC memory
- Support of Windows 10 Pro
- 17.3-inch (43.9 cm) full HD LED anti-glare display
- Dual M.2 SSDs PCIe NVMe technology support quick loading of your applications
- Easy serviceability: Removable battery and service door at the bottom



#### Stop searching for an adapter

In a hyper-connected world there is no need to compromise, regardless of whether you are at the customer site, at an event, in a meeting or in the office

- Thunderbolt™ 3 port replicator
- 2x Thunderbolt™ 3: USB Type-C™ connector offering speed (40 GBit/s), protocols (including Thunderbolt™ 3) and charging capabilities (power delivery of 15W) for e.g. mobile phone or power bank. The mobile workstation requires a power supply with 330W.
- Full monitor connectivity: 2x DisplayPort via USB Type-C™, 1x full-size DisplayPort and 1x VGA
- Up to 9 hours of battery life

#### We are (VR) ready

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

- Powered by the complete portfolio of professional NVIDIA® Quadro® VR-ready graphics cards
- Ideal for mobile VR showcases at the customer site or at an event

#### Maximum 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



# Components

<b>Base unit</b>	CELSIUS H980
<b>Operating systems</b>	
<b>Operating system pre-installed</b>	Windows 10 Pro for Workstations Windows 10 Pro
<b>Operating system compatible</b>	Windows 10 Pro for Workstations Windows 10 Pro
<b>Processor</b>	Intel® Xeon® processor E-2186M (6 Cores / 12 Threads, 2.90 GHz, up to 4.6 GHz) * 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) *, ** *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)
<b>Graphics</b>	Midrange 3D: NVIDIA® Quadro® P3200, 6 GB (GDDR5), 1792 CUDA® Processing Cores High-end 3D: NVIDIA® Quadro® P4200, 8 GB (GDDR5), 2304 CUDA® Processing Cores High-end 3D: NVIDIA® Quadro® P5200, 16 GB (GDDR5), 2560 CUDA® Processing Cores
<b>Memory modules</b>	8 GB (1 module(s) 8 GB) DDR4, 2,400 MT/s, PC4-2400, SO DIMM 16 GB (2 module(s) 8 GB) DDR4, 2,400 MT/s, PC4-2400, SO DIMM 16 GB (2 module(s) 8 GB) DDR4, ECC, 2,400 MT/s, PC4-2400, SO DIMM 32 GB (2 module(s) 16 GB) DDR4, 2,400 MT/s, PC4-2400, SO DIMM 32 GB (2 module(s) 16 GB) DDR4, ECC, 2,400 MT/s, PC4-2400, SO DIMM
<b>Hard disk drives (internal)</b>	HDD SATA III, 5,400 rpm, 500 GB HDD SATA III, 5,400 rpm, 1000 GB PCIe-SSD, NVMe, 256 GB, M.2 module PCIe-SSD, NVMe, 512 GB, M.2 module PCIe-SSD, NVMe, 256 GB Highend, M.2 module PCIe-SSD, NVMe, 512 GB Highend, M.2 module, SED PCIe-SSD, NVMe, 512 GB Highend, M.2 module PCIe-SSD, NVMe, 1024 GB Highend, M.2 module
<b>Hard disk notes</b>	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software.
<b>Interface add on cards/components (optional)</b>	
<b>3G/4G (optional)</b>	Sierra Wireless EM7455 (Cat. 6)
<b>Display</b>	43.9 cm (17.3-inch), TFT, (Full HD Premium), Anti-glare IPS display, 1,920 x 1,080 pixel, Viewing angle v/h: 160°min, Color Gamut: 72%, Contrast Ratio: 700 typ., Brightness: 300cd/m <sup>2</sup>
<b>Multimedia</b>	
<b>Camera</b>	Built-in webcam, Full HD

## Base unit

<b>Base unit</b>	CELSIUS H980
<b>Mainboard</b>	
<b>Chipset</b>	Intel® QM370 or CM246 (depending on CPU)

**Mainboard**

Chipset notes	Intel® vPro™ technology dependent on processor type
Supported capacity RAM (min.)	8 GB
Supported capacity RAM (max.)	64 GB
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
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**Graphics**

Base unit	CELSIUS H980
Max. resolution external display	3,840 x 2,160 pixel via DisplayPort and Type-C and 1,920 x 1,200 pixel via VGA
Max. resolution display port	3,840 x 2,160 pixel via DisplayPort and Type-C and 1,920 x 1,200 pixel via VGA
Graphics brand name	NVIDIA® Quadro® P3200, NVIDIA® Quadro® P4200, NVIDIA® Quadro® P5200
Graphics features	NVIDIA® Quadro® P5200 (16GB GDDR5, 2.560 CUDA Processing Cores) NVIDIA® Quadro® P4200 (8GB GDDR5, 2.304 CUDA Processing Cores) NVIDIA® Quadro® P3200 (6GB GDDR5, 1.792 CUDA Processing Cores)

**Interfaces**

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

**Port Replicator interfaces (optional)**

DC-in	1x
Audio: line-in / microphone	1x
Audio: line-out / headphone	1x
USB 2.0 total	2x
USB 3.1 Gen1 (USB 3.0) total	2x
DisplayPort	2x (1x through from TBT3 TypeC, 1x via internal DP-Splitter), resolution up to 3840 x 2160
VGA	1x (via TBT3 internal DP-splitter) 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
Interface Notes	at least 330W power supply required for mobile workstation
Notes	Thunderbolt Port Replicator

**Keyboard**

Keyboard w/o touchstick (spill-resistant), Keyboard w/ touchstick, Backlight keyboard w/o touchstick (spill-resistant)  
 Number of keyboard keys: 106, Keyboard pitch: 19 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

**Power supply**

**AC adapter** 19.5 V / 330 W (16.9 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, 14.4V/6700mAh/96 Wh

**Runtime 1st battery** up to 11 hours (pending on configuration)

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

**Dimensions / Weight / Environmental**

**Dimensions (W x D x H)** 418.0 x 288.0 x 33.0 mm w/o rubber mm  
 16.46 x 11.34 x 1.3 inch w/o rubber foot inch

**Weight** from 3.5 kg

**Weight (lbs)** from 9.38 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)

**Compliance**

**Product** CELSIUS H980

**Europe** CE Marking

**Global** RoHS (EU & China)  
 ENERGY STAR® 7.0

**Compliance link** <https://sp.ts.fujitsu.com/sites/certificates>

**Additional Software**

**Additional software (preinstalled)** Adobe® Reader® (pdf reader)  
 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**

<b>Manageability technology</b>	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN) Intel® vPro™ technology/iAMT (depending on processor)
<b>Manageability software</b>	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform
<b>DeskView components</b>	Inventory Management BIOS Management Driver Management Security Management Alarm Management
<b>Supported standards</b>	WMI PXE BootP (made4you)
<b>Manageability link</b>	<a href="http://www.fujitsu.com/fts/solutions/high-tech/dynamic-infrastructure/solutions/workplace/manageability/feature-finder.html">http://www.fujitsu.com/fts/solutions/high-tech/dynamic-infrastructure/solutions/workplace/manageability/feature-finder.html</a>

**Security**

<b>Physical Security</b>	Kensington Lock support
<b>System and BIOS Security</b>	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)
<b>User Security</b>	Embedded fingerprint sensor Embedded PalmSecure™ sensor (optional) Separate SmartCard slot Hard disk password User and supervisor BIOS password Preboot Authentication with SystemLock 3

**Warranty**

<b>Warranty period</b>	3 years (depending on country)
<b>Warranty type</b>	Bring-in Service / Collect & Return Service (depending on country)
<b>Warranty Terms &amp; Conditions</b>	<a href="http://www.fujitsu.com/warranty">http://www.fujitsu.com/warranty</a>
<b>Product Support Services - the perfect extension</b>	
<b>Recommended Service</b>	9x5, Onsite Response Time: Next Business Day
<b>Spare Parts availability</b>	5 years after end of product life
<b>Service Weblink</b>	<a href="http://www.fujitsu.com/emeia/products/product-support-services/">http://www.fujitsu.com/emeia/products/product-support-services/</a>

## Recommended Accessories

**Thunderbolt™ 3 Port-Replicator  
for CELSIUS Workstations**

Take advantage of the USB Type-C™ connector offering more speed (40 Gbps) and more protocols.

Order Code:  
S26391-F2249-L100

**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 has a 3840 x 2160 Ultra HD resolution ships with a thin bezel housing ideal for multi-monitor use scenarios. The monitor has a 178°/178° wide viewing angle that delivers consistent picture quality, a 100% sRGB color space, ECO function, DisplayView™ IT Suite manageability software and a range of connectivity options ideal for medium- and large-sized businesses.

Order Code:  
S26361-K1610-V160

**Keyboard KB950 Phone**

The KB950 Phone is a modern and slim line USB keyboard with integrated Skype for business features. This extremely reliable, high-speed input device is the perfect way to manage incoming and outgoing calls, even when the system is locked. Three additional keys make it easy to accept and end calls and mute your microphone during a call. Easy number dialing is assured with the numpad. The integrated 61 x 12 mm display shows the time and date, the user status and shows incoming call data in the form of the calling number and caller ID.

S26381-F950-L4\*\* (\*\*:  
Country specific variation)

## More information

### Fujitsu products, solutions & services

In addition to the FUJITSU Workstation CELSIUS H980, 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 H980, 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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