

Fujitsu recommends Windows 10 Pro.

Data Sheet

FUJITSU Workstation CELSIUS H980 Workstations

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

Base unit	CELSIUS H980
Operating systems	
Operating system pre-installed	Windows 10 Pro. Fujitsu recommends Windows 10 Pro. Windows 10 Pro for Workstations
Operating system compatible	Windows 10 Pro Windows 10 Pro for Workstations
Processor	
	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)
Graphics	
	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
Memory modules	
	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
Hard disk drives (internal)	
	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
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)
Display	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 ²
Multimedia	
Camera	Built-in webcam, Full HD

Base unit

Base unit	CELSIUS H980
Mainboard	
Chipset	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

Manageability technology	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)
Manageability software	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform
DeskView components	Inventory Management BIOS Management Driver Management Security Management Alarm Management
Supported standards	WMI PXE BootP (made4you)
Manageability link	http://www.fujitsu.com/fts/solutions/high-tech/dynamic-infrastructure/solutions/workplace/manageability/feature-finder.html

Security

Physical Security	Kensington Lock support
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 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)
Warranty Terms & Conditions	http://www.fujitsu.com/warranty
Product Support Services - the perfect extension	
Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years after end of product life
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/

Recommended Accessories

Thunderbolt™ 3 Port-Replicator

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/

Software

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

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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2020-04-25 EM-EN

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