

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

- 2x Thunderbolt™ 3: USB Type-C™ connector offering speed (40 GBit/s), protocols (including Thunderbolt™ 3) and charging capabilities (power delivery of 15W)
- Full monitor connectivity: 2x DisplayPort via USB Type-C™, 1x full-size DisplayPort and 1x VGA
- Up to 9 hours of battery life
- Thunderbolt™ 3 port replicator

#### 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                                                                                                                                                                                            |
| <b>Operating systems</b>                            |                                                                                                                                                                                                         |
| Operating system pre-installed                      | Windows 10 Pro. Fujitsu recommends Windows 10 Pro.<br>Windows 10 Pro for Workstations                                                                                                                   |
| Operating system compatible                         | Windows 10 Pro<br>Windows 10 Pro for Workstations                                                                                                                                                       |
| <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) *, **                                                                                                                   |
| <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 MHz, PC4-2400, SO DIMM                                                                                                                                              |
|                                                     | 16 GB (2 module(s) 8 GB) DDR4, 2,400 MHz, PC4-2400, SO DIMM                                                                                                                                             |
|                                                     | 16 GB (2 module(s) 8 GB) DDR4, ECC, 2,400 MHz, PC4-2400, SO DIMM                                                                                                                                        |
|                                                     | 32 GB (2 module(s) 16 GB) DDR4, 2,400 MHz, PC4-2400, SO DIMM                                                                                                                                            |
|                                                     | 32 GB (2 module(s) 16 GB) DDR4, ECC, 2,400 MHz, 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                                                                                                                                                             |
| Hard disk notes                                     | One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.<br>Accessible capacity may vary, also depending on used software.                                                    |
| <b>Interface add on cards/components (optional)</b> |                                                                                                                                                                                                         |
| 3G/4G (optional)                                    | Sierra Wireless EM7455 (Cat. 6)                                                                                                                                                                         |
| Display                                             | 39.6 cm (15.6-inch), LED backlit, (Full HD), Anti-glare IPS display, 1,920 x 1,080 pixel, Viewing angle: Left/Right/Top/Bottom 80°min, Color Gamut: 45%, Contrast Ratio: 700 typ., Brightness: 250cd/m² |
| <b>Multimedia</b>                                   |                                                                                                                                                                                                         |
| Camera                                              | Built-in webcam, Full HD                                                                                                                                                                                |

## Base unit

|                               |                                          |
|-------------------------------|------------------------------------------|
| Base unit                     | CELSIUS H980                             |
| <b>Mainboard</b>              |                                          |
| Chipset                       | Intel® QM370 or CM246 (depending on CPU) |
| Supported capacity RAM (min.) | 8 GB                                     |
| Supported capacity RAM (max.) | 64 GB                                    |

**Mainboard**

|                 |                                        |
|-----------------|----------------------------------------|
| Memory slots    | 4 SO DIMM (DDR4, 2133 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 |

**Display**

|                               |                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| Display                       | 43.9 cm (17.3-inch), TFT, (Full HD), Anti-glare IPS display, 1,920 x 1,080 pixel, 700:1, 300 cd/m <sup>2</sup> |
| Display notes                 | ISO 9241-307 - Pixel class II                                                                                  |
| Brightness - typical          | 300 cd/m <sup>2</sup>                                                                                          |
| Contrast - typical            | 700:1                                                                                                          |
| Viewing angle (h/v) - typical | 160°/160°                                                                                                      |

**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)<br>NVIDIA® Quadro® P4200 (8GB GDDR5, 2.304 CUDA Processing Cores)<br>NVIDIA® Quadro® P3200 (6GB GDDR5, 1.792 CUDA Processing Cores) |

**Interfaces**

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| DC-in                  | 1                                                                                   |
| Internal microphones   | 2 digital array microphones                                                         |
| Internal speakers      | 2                                                                                   |
| USB 3.1 Gen2 total     | 3                                                                                   |
| 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                        | 1 |
| Audio: line-in / microphone  | 1 |
| Audio: line-out / headphone  | 1 |
| USB 2.0 total                | 2 |
| USB 3.1 Gen1 (USB 3.0) total | 2 |
| DisplayPort                  | 2 |
| VGA                          | 1 |
| DVI                          | 1 |
| Ethernet (RJ-45)             | 1 |

**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

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antennas</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Bluetooth                                  | 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Integrated WLAN                            | Intel Dual Band Wireless-AC9560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Fast IDE/Ultra DMA-100</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SATA RAID support                          | 0,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Power supply</b>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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 config. and usage)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Battery charging time                      | up to 80% within 1.3hrs., up to 100% within 2.5hrs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Dimensions / Weight / Environmental</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Compliance</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product                                    | CELSIUS H980                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Europe                                     | CE Marking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Global                                     | RoHS (EU & China)<br>ENERGY STAR® 7.0<br>EPEAT® in progress (dedicated regions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Compliance link                            | <a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Additional Software</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Additional software (preinstalled)         | Adobe® Reader® (pdf reader)<br>McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version)<br>Fujitsu Display Manager<br>EasyGuide online user documentation<br>Power Saving Utility<br>ShockSensor Utility<br>SmartAccess<br>Fujitsu Plugfree Network (network management utility)<br>Intel® SBA (manageability suite for local administration)<br>DTS® Sound Enhance Software<br>Fujitsu Application Button Utility<br>Fujitsu DeskUpdate (driver and utility tool)<br>Microsoft Office (buy license to activate the pre-installed Microsoft Office) |
| Additional software (optional)             | Drivers & Utilities DVD (DUDVD)<br>LTE / UMTS Connection Manager (if configured with 4G/LTE or 3G/UMTS)<br>Workplace Protect (secure authentication solution)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Manageability</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Manageability technology                   | DeskUpdate Driver management<br>PXE 2.1 Boot code<br>Wake up from S5 (off mode)<br>iAMT 12.0 (depending on processor)<br>Intel® vPro™ technology<br>WoL (Wake on LAN)                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Manageability software                     | DeskView Client<br>DeskView Instant BIOS Management<br>DeskView Integration for Symantec Management Platform                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Manageability**

|                            |                                                                                                                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DeskView components</b> | Inventory Management<br>BIOS Management<br>Driver Management<br>Security Management<br>Alarm Management                                                                                                                                                               |
| <b>Supported standards</b> | WMI<br>PXE<br>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<br>Computrace® enabled BIOS<br>EraseDisk (optional)<br>Write protect option for the Flash EPROM<br>Trusted Platform Module (TPM 2.0)                                        |
| <b>User Security</b>            | Embedded fingerprint sensor<br>Embedded palm vein sensor (optional)<br>Separate SmartCard slot<br>Hard disk password<br>User and supervisor BIOS password<br>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://support.ts.fujitsu.com/warranty">http://support.ts.fujitsu.com/warranty</a> |

**Product Related Services - the perfect extension**

|                                 |                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------|
| <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/fts/services/support">http://www.fujitsu.com/fts/services/support</a> |

## Recommended Accessories

**Thunderbolt 3 Port-Replicator**

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

Order Code:  
S26391-F2249-L100

**Prestige Trolley 17.3**

The FUJITSU Prestige Trolley 17.3 protects and transports notebooks with up to 17.3-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

**Display B34-9 UE**

The FUJITSU Display B34-9 UE is an ultrawide curved display with 3440 x 1440 resolution with a thin bezel housing. The monitor has a 1900R curvature and a wide viewing angle that delivers consistent picture quality, DisplayView™ Click manageability software and a range of connectivity options ideal for medium- and large-sized businesses.

Order Code:  
S26361-K1642-V140

**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/fts/CELSIUS](http://www.fujitsu.com/fts/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>



**Green  
Policy  
Innovation**

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2018-07-26 EM-EN

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