

Fujitsu recommends Windows 10 Pro.

# Data Sheet

## FUJITSU Workstation CELSIUS H970 Workstations

### Bringing VR to the Streets

Ever wished your laptop could go the distance, even into the future? The FUJITSU CELSIUS H970 17.3-inch mobile workstation pushes the limits in terms of 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 E3-1500M family supporting ECC memory
- Support of Windows 10 Pro
- 17.3-inch (43.9 cm) full HD LED anti-glare display
- Up to 64 GB DDR4 memory (4 SODIMM slots)
- Dual M.2 SSDs PCIe NVMe technology support quick loading of your applications
- Integrated Intel graphics for maximum energy efficiency when working on office applications paired with the latest NVIDIA® Quadro® Pascal technology for blazing performance (up to 2048 CUDA cores)
- Thunderbolt 3 port replicator
- Made in Germany

#### 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 more speed (40 GBit/s), more protocols 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

#### 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® P4000 and P5000 VR-ready graphics cards
- Ideal for mobile VR showcases at the customer site or at an event

#### Easy serviceability

Faster access to all components and easy upgrade of your system

- Removable battery and service door at the bottom



# Components

Base unit	CELSIUS H970 i5-7440HQ - S26391-K456-V110	CELSIUS H970 i7-7820HQ - S26391-K456-V120	CELSIUS H970 E3-1505Mv6 - S26391-K456-V130	CELSIUS H970 E3-1535Mv6 - S26391-K456-V140
Operating systems				
Operating system pre-installed	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro
Operating system compatible	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro
Graphics	High-end 3D: NVIDIA® Quadro® P5000, 16 GB			
	High-end 3D: NVIDIA® Quadro® P4000, 8 GB			
	High-end 3D: NVIDIA® Quadro® P3000, 6 GB			
Memory modules	16 GB (2 module(s) 8 GB) DDR4, ECC, 2,400 MHz, PC4-2400, SO DIMM			
	32 GB (2 module(s) 16 GB) DDR4, ECC, 2,400 MHz, PC4-2400, SO DIMM			
Hard disk drives (internal)	HDD SATA III, 5,400 rpm, 500 GB			
	HDD SATA III, 5,400 rpm, 1 TB			
	SSD SATA III, 256 GB, M.2 module			
	SSD SATA III, 256 GB, M.2 module, SED			
	SSD SATA III, 512 GB, M.2 module, SED			
	SSD SATA III, 1024 GB, M.2 module, SED			
	PCIe-SSD, NVMe, 256 GB, M.2 module			
	PCIe-SSD, NVMe, 256 GB, M.2 module, SED			
	PCIe-SSD, NVMe, 512 GB, M.2 module, SED			
Hard disk notes	PCIe-SSD, NVMe, 1024 GB, M.2 module, SED			
	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 EM7305			
Multimedia				
Camera	Built-in webcam, 2.0 megapixel			
Camera notes	2 microphones integrated			

## Base unit

Base unit	CELSIUS H970 i5-7440HQ - S26391-K456-V110	CELSIUS H970 i7-7820HQ - S26391-K456-V120	CELSIUS H970 E3-1505Mv6 - S26391-K456-V130	CELSIUS H970 E3-1535Mv6 - S26391-K456-V140
<b>Mainboard</b>				
Processor	Intel® Core™ i5-7440HQ processor	Intel® Core™ i7-7820HQ processor	Intel® Xeon® processor E3-1505M v6	Intel® Xeon® processor E3-1535M v6
	(4 Cores / 4 Threads, up to 3.8 GHz)	(4 Cores / 8 Threads, up to 3.9 GHz)	(4 Cores / 8 Threads, up to 4.0 GHz)	(4 Cores / 8 Threads, up to 4.2 GHz)
Chipset	Intel® QM175 or CM238 (depending on CPU)	Intel® QM175 or CM238 (depending on CPU)	Intel® QM175 or CM238 (depending on CPU)	Intel® QM175 or CM238 (depending on CPU)
Supported capacity RAM (min.)	8 GB	8 GB	8 GB	8 GB
Supported capacity RAM (max.)	64 GB	64 GB	64 GB	64 GB

**Mainboard**

Memory slots	4 SO DIMM (DDR4, 2133 MHz)	4 SO DIMM (DDR4, 2133 MHz)	4 SO DIMM (DDR4, 2133 MHz)	4 SO DIMM (DDR4, 2133 MHz)
LAN	10/100/1,000 MBit/s Intel® I219LM	10/100/1,000 MBit/s Intel® I219LM	10/100/1,000 MBit/s Intel® I219LM	10/100/1,000 MBit/s Intel® I219LM
Integrated WLAN	Intel Dual Band Wireless-AC8265	Intel Dual Band Wireless-AC8265	Intel Dual Band Wireless-AC8265	Intel Dual Band Wireless-AC8265
BIOS features	InsydeH20 Bios	InsydeH20 Bios	InsydeH20 Bios	InsydeH20 Bios
Audio type	On board	On board	On board	On board
Audio codec	Realtek ALC255	Realtek ALC255	Realtek ALC255	Realtek ALC255
Audio features	Stereo speakers, 2 digital microphones	Stereo speakers, 2 digital microphones	Stereo speakers, 2 digital microphones	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,300:1,300 cd/m²	43.9 cm (17.3-inch),TFT,(Full HD),Anti-glare IPS display,1,920 x 1,080 pixel,300:1,300 cd/m²	43.9 cm (17.3-inch),TFT,(Full HD),Anti-glare IPS display,1,920 x 1,080 pixel,300:1,300 cd/m²	43.9 cm (17.3-inch),TFT,(Full HD),Anti-glare IPS display,1,920 x 1,080 pixel,300:1,300 cd/m²
Display notes	ISO 9241-307 - Pixel class II	ISO 9241-307 - Pixel class II	ISO 9241-307 - Pixel class II	ISO 9241-307 - Pixel class II
Brightness - typical	300 cd/m²	300 cd/m²	300 cd/m²	300 cd/m²
Contrast - typical	300:1	300:1	300:1	300:1

**Graphics**

Base unit	CELSIUS H970 i5-7440HQ - S26391-K456-V110	CELSIUS H970 i7-7820HQ - S26391-K456-V120	CELSIUS H970 E3-1505Mv6 - S26391-K456-V130	CELSIUS H970 E3-1535Mv6 - S26391-K456-V140
Max. resolution external display	3,840 x 2,160 pixel via DisplayPort and Type-C and 1,920 x 1,200 pixel via VGA	3,840 x 2,160 pixel via DisplayPort and Type-C and 1,920 x 1,200 pixel via VGA	3,840 x 2,160 pixel via DisplayPort and Type-C and 1,920 x 1,200 pixel via VGA	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	3,840 x 2,160 pixel	3,840 x 2,160 pixel	3,840 x 2,160 pixel
Graphics brand name	NVIDIA® Quadro® P3000, NVIDIA® Quadro® P4000, NVIDIA® Quadro® P5000	NVIDIA® Quadro® P3000, NVIDIA® Quadro® P4000, NVIDIA® Quadro® P5000	NVIDIA® Quadro® P3000, NVIDIA® Quadro® P4000, NVIDIA® Quadro® P5000	NVIDIA® Quadro® P3000, NVIDIA® Quadro® P4000, NVIDIA® Quadro® P5000
Graphics features	NVIDIA® Quadro® P3000: 1280 CUDA Cores NVIDIA® Quadro® P4000: 1792 CUDA Cores NVIDIA® Quadro® P5000: 2048 CUDA Cores	NVIDIA® Quadro® P3000: 1280 CUDA Cores NVIDIA® Quadro® P4000: 1792 CUDA Cores NVIDIA® Quadro® P5000: 2048 CUDA Cores	NVIDIA® Quadro® P3000: 1280 CUDA Cores NVIDIA® Quadro® P4000: 1792 CUDA Cores NVIDIA® Quadro® P5000: 2048 CUDA Cores	NVIDIA® Quadro® P3000: 1280 CUDA Cores NVIDIA® Quadro® P4000: 1792 CUDA Cores NVIDIA® Quadro® P5000: 2048 CUDA Cores

**Interfaces**

DC-in	1
Audio	1 combo in/out
Audio: line-out	1
Internal microphones	2 digital array microphones
USB 3.1 Gen1 (USB 3.0) total	3
USB Type-C	2 (USB 3.1 Gen2 (10 Gbps), Thunderbolt 3 (20/40Gbps), Power Delivery (15W), DP 1.2)
VGA	1
DisplayPort	1
Ethernet (RJ-45)	1
SmartCard slot	1
SIM card slot	1
Multicardreader	1 (SD/SDHC) 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

**Port Replicator interfaces (optional)**

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**

	Touchpad with three mouse buttons
<b>Input devices (optional)</b>	TouchStick

**Antennas**

<b>Integrated WLAN</b>	Intel Dual Band Wireless-AC8265
------------------------	---------------------------------

**Power supply**

<b>AC adapter</b>	19.5 V / 250 W (13 A)
<b>Rated voltage range</b>	100 V - 240 V (AC Input)
<b>Rated frequency range</b>	50 Hz - 60 Hz
<b>Runtime 1st battery</b>	up to 9 hours

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	418.0 x 288.0 x 30.0 mm w/o rubber mm 16.46 x 11.34 x 1.18 inch w/o rubber inch
<b>Weight</b>	3.3 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	5 - 35 °C (41 - 95 °F)
<b>Operating relative humidity</b>	20 - 80 % (relative humidity, non-condensing)

**Compliance**

<b>Product</b>	CELSIUS H970
<b>Europe</b>	CE Marking
<b>Global</b>	RoHS (EU & China) ENERGY STAR® 6.1 (dedicated regions)
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**Additional Software**

<b>Additional software (preinstalled)</b>	Adobe® Reader® (pdf reader) McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) 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 (buy license to activate the pre-installed Microsoft Office)
<b>Additional software (optional)</b>	Drivers & Utilities DVD (DUDVD) LTE / UMTS Connection Manager (if configured with 4G/LTE or 3G/UMTS)

**Manageability**

<b>Manageability technology</b>	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) iAMT 11.0 (depending on processor) Intel® vPro™ technology WoL (Wake on LAN)
---------------------------------	---

**Manageability**

<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>			
<b>Physical Security</b>	Kensington Lock support	Kensington Lock support	Kensington Lock support	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)	Advanced Theft Protection Computrace® enabled BIOS EraseDisk (optional) Write protect option for the Flash EPROM Trusted Platform Module (TPM 2.0)	Advanced Theft Protection Computrace® enabled BIOS EraseDisk (optional) Write protect option for the Flash EPROM Trusted Platform Module (TPM 2.0)	Advanced Theft Protection Computrace® enabled BIOS EraseDisk (optional) Write protect option for the Flash EPROM Trusted Platform Module (TPM 2.0)
<b>User Security</b>	Embedded fingerprint sensor Separate SmartCard slot Hard disk password User and supervisor BIOS password Preboot Authentication with SystemLock 3	Embedded fingerprint sensor Separate SmartCard slot Hard disk password User and supervisor BIOS password Preboot Authentication with SystemLock 3	Embedded fingerprint sensor Separate SmartCard slot Hard disk password User and supervisor BIOS password Preboot Authentication with SystemLock 3	Embedded fingerprint sensor 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://support.ts.fujitsu.com/warranty">http://support.ts.fujitsu.com/warranty</a>
<b>Product Related Services - the perfect extension</b>	
<b>Recommended Service</b>	X - 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 H970**

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

Order Code:  
S26391-F2249-L100

<b>PerfectSkin 16 - 17.3-inch</b>		<p>The DICOTA PerfectSkin is a sleeve series protecting notebooks from 12 to 17.3-inch on the move. Its smart design provides well-thought details: The zipper is fitted with an extra surface on the inside to avoid scratches on the notebook. The robust, especially elastic neoprene fits snugly like a second skin to the notebook ensuring optimum protection against scratches and minor damages. PerfectSkin is the ideal notebook companion on the move.</p>	<p>Order Code: S26391-F1193-L173</p>
<b>Prestige Trolley 17.3</b>		<p>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.</p>	<p>Order Code: S26391-F1194-L130</p>
<b>Display P27-8 TS UHD</b>		<p>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.</p>	<p>Order Code: S26361-K1610-V160</p>
<b>Wireless Mouse Touch WI910</b>		<p>The Fujitsu Wireless Mouse Touch WI910 has a special touch sensitive surface that recognizes when your hand touches the mouse even before you move it. This provides nearly instantaneous wake-up from the intelligent energy saving sleep mode. Unbeatable responsiveness combines with features like switchable resolution, and three programmable buttons for a unique user experience.</p>	<p>Order Code: S26381-K465-L100</p>
<b>SpaceMouse™ Pro</b>		<p>Using the SpaceMouse™ Pro 3D mouse to navigate 3D models or environments is as simple as holding them in your hand. A slight movement of the controller cap delivers easy and precise control. SpaceMouse™ Pro is a companion to the traditional mouse and is operated with the free hand. Your traditional mouse hand is free to select, create and edit.</p>	<p>Order Code: S26381-K459-L100</p>

# More information

## Fujitsu products, solutions & services

In addition to the FUJITSU Workstation CELSIUS H970, 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 H970, 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>



## Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see <http://www.fujitsu.com/fts/resources/navigation/terms-of-use.html>

Copyright 2018 Fujitsu Technology Solutions GmbH

## Disclaimer

Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

## Contact

Fujitsu Technology Solutions GmbH  
Website: [www.fujitsu.com/fts](http://www.fujitsu.com/fts)  
2018-06-01 EM-EN

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see <http://www.fujitsu.com/fts/resources/navigation/terms-of-use.html>  
Copyright 2018 Fujitsu Technology Solutions GmbH