

Fujitsu recommends Windows 10 Pro.

Data Sheet

FUJITSU Workstation CELSIUS M770

Bring Your Ideas To Life

At Fujitsu, we are proud of our engineering capabilities which allowed us to optimize the CELSIUS M770 to combat today's professional and technical challenges making it the ideal desktop workstation for computer-aided engineering area as well as demanding media & entertainment applications.

Performance you can count on

Spectrum of performance due to a wide range of professional grade features

- 1st Generation Intel® Xeon® Processor W Family
- Support of Windows 10 Pro for Workstations
- Support of up to 256 GB DDR4 2,666 memory
- Fujitsu SSD PCIe card (up to 2 x 1 TB)

Smart Access and Smart Security

Human centric innovation meets security

- Cold-plug Technology: Storage accessible via a front disk tray
- Optional security lock (side door and front access)
- Intrusion detector sensor integrated into the power supply



Smart Usability and Smart Power Supply

Engineering excellence

- Easy serviceability: Cable-free design, green touchpoints
- Digital power supply to support IPMI FRU (data tracking)
- Rack mountable (4U)

Made in Germany

From design to production – an "IT made in Germany" quality in which you can trust

- Comprehensive testing in certified in-house laboratories for 24/7 operation
- Intelligent tri-channel thermal management
- Whisper quiet: 20 dB(A)
- Good Design Award 2017 (Japan)

We are (VR) ready

Enjoy a fully immersive and real-time Virtual Reality experience with low latency at high frame rates

- Powered by the NVIDIA® Quadro® P4000, P5000 and P6000 VR-ready graphics cards



R A D E O N P R O W X



Components

Processor	Intel® Xeon® processor W-2155 (10 Cores, 3.30 GHz, up to 4.5 GHz) Intel® Xeon® processor W-2145 (8 Cores, 3.70 GHz, up to 4.5 GHz) Intel® Xeon® processor W-2135 (6 Cores, 3.70 GHz, up to 4.5 GHz) Intel® Xeon® processor W-2133 (6 Cores, 3.60 GHz, up to 3.9 GHz) Intel® Xeon® processor W-2125 (4 Cores, 4.00 GHz, up to 4.5 GHz) Intel® Xeon® processor W-2123 (4 Cores, 3.60 GHz, up to 3.9 GHz) Intel® Xeon® processor W-2104 (4 Cores, 3.20 GHz) Intel® Xeon® processor W-2102 (4 Cores, 2.90 GHz) Intel® vPro™ technology
Operating systems	
Operating system pre-installed	Windows 10 Pro for Workstations Windows 7 Professional (available through downgrade rights from Windows 10 Pro)
Operating system compatible	Linux
Operating system notes	Certified for Red Hat® Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server
Memory modules	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,666 MHz 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,666 MHz 32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,666 MHz
Graphics	Midrange 3D: AMD Radeon™ Pro WX 7100 , 8 GB, PCIe x16, 4 x DisplayPort Ultra-high-end 3D: NVIDIA® Quadro® P6000, 24 GB, PCIe x16, 1x Dual Link DVI-D, 4 x DisplayPort Ultra-high-end 3D: NVIDIA® Quadro® P5000, 16 GB, PCIe x16, 1x Dual Link DVI-D, 4 x DisplayPort High-end 3D: NVIDIA® Quadro® P4000, 8 GB, PCIe x16, 4 x DisplayPort Midrange 3D: NVIDIA® Quadro® P2000, 5 GB, PCIe x16, 4 x DisplayPort Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCIe x16, 4x miniDP Entry 3D: AMD Radeon™ Pro WX 3100, 4 GB, 320 stream processors, PCIe x16, 1x DisplayPort, 2x miniDP Entry 3D: NVIDIA® Quadro® P600, 2 GB, PCIe x16, 4x miniDP Entry 3D: AMD Radeon™ Pro WX 2100, 2 GB, 320 stream processors, PCIe x16, 1x DisplayPort, 2x miniDP Entry 3D: NVIDIA® Quadro® P400 , 2 GB, PCIe x16, 3x miniDP Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP

Hard disk drives (internal)	SSD PCIe, 1024 GB M.2 NVMe Highend module SSD PCIe, 512 GB M.2 NVMe Highend module SSD PCIe, 256 GB M.2 NVMe Highend module SSD PCIe, 2x 1024 GB M.2 NVMe Highend card SSD PCIe, 2x 512 GB M.2 NVMe Highend card SSD PCIe, 2x 256 GB M.2 NVMe Highend card SSD PCIe, 1x1024 GB M.2 NVMe Highend card SSD PCIe, 1x 512 GB M.2 NVMe Highend card SSD PCIe, 1x 256 GB M.2 NVMe Highend card SSD PCIe, 1024 GB M.2 NVMe module SSD PCIe, 512 GB M.2 NVMe module SSD PCIe, 256 GB M.2 NVMe module SSD PCIe, 2x 1024 GB M.2 NVMe card SSD PCIe, 2x 512 GB M.2 NVMe card SSD PCIe, 2x 256 GB M.2 NVMe card SSD PCIe, 1x 1024 GB M.2 NVMe card SSD PCIe, 1x 512 GB M.2 NVMe card SSD PCIe, 1x 256 GB M.2 NVMe card SSD SATA III, 960 GB High Endurance, 2.5-inch SSD SATA III, 480 GB High Endurance, 2.5-inch SSD SATA III, 240 GB High Endurance, 2.5-inch SSD SATA III, 1024 GB, 2.5-inch SSD SATA III, 512 GB, 2.5-inch SSD SATA III, 256 GB, 2.5-inch SSD SATA III, 512 GB, 2.5-inch, SED SSD SATA III, 256 GB, 2.5-inch, SED HDD SAS, 10,000 rpm, 1800 GB, 2.5-inch HDD SAS, 10,000 rpm, 1200 GB, 2.5-inch HDD SAS, 10,000 rpm, 900 GB, 2.5-inch HDD SAS, 10,000 rpm, 600 GB, 2.5-inch HDD SATA III, 7,200 rpm, 6,000 GB, 3.5-inch, business critical HDD SATA III, 7,200 rpm, 4,000 GB, 3.5-inch, business critical HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch, business critical HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical HDD SATA III, 7,200 rpm, 2,000 GB, 2.5-inch, business critical HDD SATA III, 7,200 rpm, 1,000 GB, 2.5-inch, business critical HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. 24/7 ready (Business Critical HDDs or SAS HDDs or High Endurance SSDs required) Up to 20 GB of HDD space is reserved for system recovery SED (Self-Encrypting Drive) SSD (Solid State Disk)
Drives (optional)	BD Triple Writer SATA ultra slim (tray) DVD-ROM DVD Super Multi DVD Super Multi ultra slim (tray) MultiCard Reader 24in1 USB 2.0 3.5"

SCSI / SAS Controller	LSI RAID Ctrl SAS 1GB (D3216) RAID 5/6 Ctrl. 12 Gbit/s 8 ports int. LSI RAID Ctrl SAS (D3327) RAID 0/1 Ctrl. 12 Gbit/s 8 ports int. Intel VROC HW key Standard M.2
Interface add on cards/components (optional)	WLAN 802.11ac (2x2) PCIe x1 FH and BT 4.1 (dedicated regions only, up to BT 4.2 depending on OS version) WLAN 802.11ac (2x2) PCIe x1 FH (dedicated regions only) PLAN EP X550-T2 2x10GBASE-T Gigabit Ethernet PCIe x1, DS eSATA Interface Dual serial card PCIe x1
Base unit	CELSIUS M770 (S26361-K1507-V115) CELSIUS M770power (S26361-K1507-V415)
Mainboard	
Mainboard type	D3498
Formfactor	extended ATX
Chipset	Intel® C422
Processor socket	Socket R4
Processor quantity maximum	1
Supported capacity RAM (max.)	256 GB
Memory slots	8 DIMM (DDR4) ECC
Memory frequency	2,666 MHz
Memory notes	4 memory channels supporting up to 2 DIMMs per channel. For quad channel, a minimum of 4 memory modules have to be ordered and the capacity per channel has to be the same. DDR4 2,666MHz may be clocked down to 2,400 or 2,133 depending on the processor.
LAN	10/100/1,000 MBit/s Intel® I219LM
BIOS version	AMI Aptio V
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio type	On board
Audio codec	Realtek ALC671
Audio features	High Definition Audio
I/O controller on board	
Serial ATA total	8
thereof SATA III	8
thereof eSATA	
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI RAID 0/1/5/10
Interfaces	
Audio: in (rear)	1
Audio: out (rear)	1
Audio: in	1
Audio: out	1
Internal speakers	1
USB 2.0 total	2 optional via front panel
USB 3.1 Gen1 (USB 3.0) total	6
USB 3.1 Gen2 total	2 optional via front panel
USB front	2x USB 2.0; 2x USB 3.1 (Gen1); optional: 2x USB 3.1 Type-C (Gen2) instead of 2x USB 2.0
USB rear	6

Interfaces

USB internal	3, thereof 1 type A
Ethernet (RJ-45)	1
eSATA	1 (optional)
Interface Module notes	Anytime USB charge functionality

Input device / components**Drive bays**

Drive bays total	7
2.5-inch internal bays	4
3.5-inch internal bays	4
3.5-inch external bays	1
5.25-inch external bays	1
Drive bay notes	Total 4x 3.5-inch/2.5-inch Disk Tray front accessible (with Cold-plug access)
M.2-2280	1 x on mainboard (for PCIe SSD modules)

Slots

PCI-Express 3.0 x1	2 x (340 mm / 13.39 inch) Full height
PCI-Express 3.0 x4	2 x (340 mm / 13.39 inch) Full height
PCI-Express 3.0 x8	1 x (200 mm) Full height
PCI-Express 3.0 x16	2 x (340 mm / 13.39 inch) Full height

Electrical values

Power consumption note	225 W depending on configuration	400 W depending on configuration
Rated voltage range	100 V - 240 V	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
Operating voltage range	90 V - 264 V	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz	47 Hz - 63 Hz
Max. output of single power supply	450 W up to 90% efficiency	800 W up to 90% efficiency
Power factor correction/active power	active	active
Power supply output	2 graphics power rails (on Mainboard)	2 graphics power rails (on Mainboard)

Noise for standard configuration (HDD, ODD)

Related Processors for noise	Intel® Xeon® Processor W Family W-2125	Intel® Xeon® Processor W Family W-2125
Standard noise emission	According to ISO 7779:2010, ECMA-74	According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
Standard noise operation mode: CPU 50% load	3.6 B / 20 dB(A) Bystander position	3.6 B / 20 dB(A) Bystander position
Standard noise operation mode: CPU 90% load	3.7 B / 20 dB(A) Bystander position	3.7 B / 20 dB(A) Bystander position
Standard noise operation mode: HDD load	3.5 B / 19 dB(A) Bystander position	3.5 B / 19 dB(A) Bystander position
Standard noise operation mode: Idle mode	3.5 B / 19 dB(A) Bystander position	3.5 B / 19 dB(A) Bystander position
Standard noise operation mode: ODD load	4.5 B / 28 dB(A) Bystander position	4.5 B / 28 dB(A) Bystander position
Standard noise operation mode: Office applications 2.0	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position

Dimensions / Weight / Environmental

Dimensions (W x D x H)	176 x 500 x 433 mm 6.9 x 19.7 x 17.1 inch
Operating position	Vertical / horizontal
Weight	approx. 18 kg
Weight (lbs)	approx. 39.67 lbs

Dimensions / Weight / Environmental

Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35 °C (50 - 95 °F)
Operating relative humidity	5 - 85 % (relative humidity)

Compliance

Product	CELSIUS M770	CELSIUS M770power
Model	CM17	
Germany	GS depending on configuration	
Europe	CE	
USA/Canada	FCC Class B cCSAus	
Global	RoHS (EU & China) Microsoft Operating Systems (HCT / HCL entry / WHQL) WEEE (Waste electrical and electronic equipment) ENERGY STAR® 6.1 in progress EPEAT® Silver (dedicated regions) (planned)	
China	CCC (planned) TPM 2.0 for China (optional)	
Compliance notes	Product Name maybe followed by suffixes	
Compliance link	https://sp.ts.fujitsu.com/sites/certificates	

Additional Software

Additional software (preinstalled)	Workplace Protect (secure authentication solution) McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) Microsoft Office (buy license to activate the pre-installed Microsoft Office)
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™) CyberLink PowerDVD DVD (playback software for DVD) Nero Essentials XL

Security

Physical Security	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)
System and BIOS Security	Embedded security (TPM 2.0) Boot sector virus protection Write protect option for the Flash EPROM Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces	Embedded security (TPM 2.0) Boot sector virus protection Write protect option for the Flash EPROM Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional) Workplace Protect (secure authentication solution)	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional) Workplace Protect (secure authentication solution)
Workplace Embedded Tools	Auto BIOS Update via Fujitsu Server Auto BIOS Update via customer server (optional) Easy PC Protection (optional)	Auto BIOS Update via Fujitsu Server Auto BIOS Update via customer server (optional) Easy PC Protection (optional)

Manageability

Manageability technology	DeskUpdate Driver management iAMT 11.6 (depending on processor) PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) WoL (Wake on LAN)
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Manageability

Manageability software	DeskView Client DeskView Instant BIOS Management	
DeskView components	Inventory Management BIOS Management Driver Management Security Management Alarm Management	
Supported standards	WMI (Windows Management Instrumentation) PXE (Preboot Execution Environment) DMI (Desktop Management Interface) SMBIOS (System Management BIOS) WBEM (Web Based Enterprise Management) CIM (Common Information Model)	
Manageability link	http://www.fujitsu.com/fts/manageability	
Miscellaneous		
	Rack mountable (4U)	Rack mountable (4U)
Spare part availability	5 years	5 years
Packaging information		
Packaging notes	printed user documentation is bleached in chlorine free process	printed user documentation is bleached in chlorine free process
Warranty		
Warranty period	3 years (depending on country)	
Warranty type	Bring-In / Onsite Service (for countries within region EMEA, for all other countries depending on local regulations)	
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty	
Product Related Services - the perfect extension		
Recommended Service	X - 9x5, Onsite Response Time: Next Business Day	
Spare Parts availability	5 years after end of product life	
Service Weblink	http://www.fujitsu.com/fts/services/support	

Recommended Accessories

Display B24W-7 LED

The FUJITSU B24W-7 LED Display with excellent ergonomics makes intensive office work extremely comfortable. This highly reliable display offers superb usability and power-saving features to help reduce your labor as well as energy costs. With wide viewing angle technology, flexible connectivity, and easy manageability, the FUJITSU B24W-7 LED Display can help you improve productivity.

Blue LED Mouse GL9000

Blue LED Mouse GL9000 comes in a slim design with proven Fujitsu engineering quality. The state-of-the-art blue LED sensor enables ultra precise switchable resolution at 1,000, 1,500 and 2,000 dpi. Blue LED Mouse GL9000 makes your life easier because it's tailor-made for right handed users. It just feels great in your hand.

Order Code:
S26381-K438-L100

SpaceMouse™ Pro

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.

Order Code:
S26381-K459-L100

Keyboard KB900



The KB900 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB900 the ideal input device for any PC or Notebook user. If you accidentally spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.

S26381-K560-L4** (**:
Country specific variation)

More information

Fujitsu products, solutions & services

In addition to the FUJITSU Workstation CELSIUS M770, 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 M770, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
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>



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