

Fujitsu recommends Windows 10 Pro for business.

Data Sheet

FUJITSU Workstation CELSIUS M7010X

Bring Your Ideas To Life

At Fujitsu, we are proud of our engineering capabilities which allowed us to optimize the CELSIUS M7010X 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

- Powerful Intel® Core™ X-series processor family
- Support of Windows 10 Pro High-End
- Support of up to 256 GB DDR4 2,933 memory
- Fujitsu SSD PCIe card (up to 2 x 2 TB)

Smart security

Human centric innovation meets security

- Optional security lock (side door and front access)
- Intrusion detector sensor integrated into the power supply
- USB keyboard with integrated PalmSecure™: Easy log-on with the help of your palm veins

Ultimate usability and easy access

Engineering excellence

- Cable-free design and green touchpoints
- Cold-plug technology: Storage accessible via a front disk tray
- Rack mountable (4U)

Designed and engineered in Germany

Quality you can trust

- Comprehensive testing in certified in-house laboratories for 24/7 operation
- Intelligent tri-channel thermal management

We are (VR) ready

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

- Intel® processors with up to 4.30 GHz frequency
- NVIDIA® Quadro® RTX 8000, RTX 6000, RTX 5000 and RTX 4000 VR-ready graphics cards



Components

	CELSIUS M7010X (S26361-K1507-V465)	CELSIUS M7010Xpower (S26361-K1507-V565)
Processor	Intel® Core™ i9-10980XE Extreme processor (18 Cores / 36 Threads, 3.00 GHz, up to 4.6 GHz, 24.75 MB) Intel® Core™ i9-10900X processor (10 Cores / 20 Threads, 3.70 GHz, up to 4.5 GHz, 19.25 MB) Intel® Core™ i9-10920X processor (12C/24T, 3.50 GHz, up to 4.6 GHz, 19.25 MB) Intel® Core™ i9-10940X processor (14 Cores / 28 Threads, 3.30 GHz, up to 4.6 GHz, 19.25 MB)	
Operating systems		
Operating system pre-installed	Windows 10 Pro High End Windows 10 Pro	Windows 10 Pro High End Windows 10 Pro
Memory modules	CELSIUS M7010X (S26361-K1507-V465) 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM 32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM	CELSIUS M7010Xpower (S26361-K1507-V565) 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM 32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM
Graphics	CELSIUS M7010X (S26361-K1507-V465) High-end 3D: NVIDIA® Quadro® RTX 4000, 8 GB, PCIe x16, 3 x DisplayPort, 1 x Virtual Link High-end 3D: AMD Radeon™ Pro WX 7100 , 8 GB, PCIe x16, 4 x DisplayPort Midrange 3D: NVIDIA® Quadro® P2200, 5 GB, PCIe x16, 4 x DisplayPort Midrange 3D: AMD Radeon™ Pro WX 5100, 8 GB, 320 stream processors, PCIe x16, 4 x DisplayPort Entry 3D: NVIDIA® Quadro® P620, 2 GB, PCIe x16, 4 x miniDP Entry 3D: NVIDIA® Quadro® P400 , 2 GB, PCIe x16, 3 x miniDP Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCIe x16, 4 x miniDP Entry 3D: AMD Radeon™ Pro WX 3100, 4 GB, 320 stream processors, PCIe x16, 1 x DisplayPort, 2 x miniDP Entry 3D: AMD Radeon™ Pro WX 2100, 2 GB, 320 stream processors, PCIe x16, 1 x DisplayPort, 2 x miniDP Others: MiniDP to DP Adapter Cable Others: DP to DVI-D (single link) Adapter Cable	CELSIUS M7010Xpower (S26361-K1507-V565) Ultra-high-end 3D: NVIDIA® Quadro® RTX 8000, 48 GB, PCIe x16, 4 x DisplayPort, 1 x Virtual Link Ultra-high-end 3D: NVIDIA® Quadro® RTX 6000, 24 GB, PCIe x16, 4 x DisplayPort, 1 x Virtual Link Ultra-high-end 3D: NVIDIA® Quadro® RTX 5000, 16 GB, PCIe x16, 4 x DisplayPort, 1 x Virtual Link High-end 3D: NVIDIA® Quadro® RTX 4000, 8 GB, PCIe x16, 3 x DisplayPort, 1 x Virtual Link High-end 3D: AMD Radeon™ Pro WX 7100 , 8 GB, PCIe x16, 4 x DisplayPort Midrange 3D: NVIDIA® Quadro® P2200, 5 GB, PCIe x16, 4 x DisplayPort Midrange 3D: AMD Radeon™ Pro WX 5100, 8 GB, 320 stream processors, PCIe x16, 4 x DisplayPort Entry 3D: NVIDIA® Quadro® P620, 2 GB, PCIe x16, 4 x miniDP Entry 3D: NVIDIA® Quadro® P400 , 2 GB, PCIe x16, 3 x miniDP Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCIe x16, 4 x miniDP Entry 3D: AMD Radeon™ Pro WX 3100, 4 GB, 320 stream processors, PCIe x16, 1 x DisplayPort, 2 x miniDP Entry 3D: AMD Radeon™ Pro WX 2100, 2 GB, 320 stream processors, PCIe x16, 1 x DisplayPort, 2 x miniDP Others: MiniDP to DP Adapter Cable Others: DP to DVI-D (single link) Adapter Cable
	CELSIUS M7010X (S26361-K1507-V465)	CELSIUS M7010Xpower (S26361-K1507-V565)

	CELSIUS M7010X (S26361-K1507-V465)	CELSIUS M7010Xpower (S26361-K1507-V565)
Hard disk drive	HDD SATA III, 7,200 rpm, 1,000 GB, 2.5-inch, business critical HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch 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, 2,000 GB, 3.5-inch HDD SATA III, 7,200 rpm, 2,000 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, 500 GB, 3.5-inch HDD SATA III, 7,200 rpm, 6,000 GB, 3.5-inch, business critical SSD PCIe, 1024 GB M.2 NVMe Highend module SSD PCIe, 1024 GB M.2 NVMe module SSD PCIe, 1x 1024 GB M.2 NVMe card SSD PCIe, 1x 2048 GB M.2 NVMe Highend card SSD PCIe, 1x 256 GB M.2 NVMe card SSD PCIe, 1x 256 GB M.2 NVMe Highend card SSD PCIe, 1x 512 GB M.2 NVMe card SSD PCIe, 1x 512 GB M.2 NVMe Highend card SSD PCIe, 1x1024 GB M.2 NVMe Highend card SSD PCIe, 2048 GB M.2 NVMe Highend module SSD PCIe, 256 GB M.2 NVMe Highend module SSD PCIe, 256 GB M.2 NVMe module SSD PCIe, 2x 1024 GB M.2 NVMe card SSD PCIe, 2x 1024 GB M.2 NVMe Highend card SSD PCIe, 2x 2048 GB M.2 NVMe Highend card SSD PCIe, 2x 256 GB M.2 NVMe card SSD PCIe, 2x 256 GB M.2 NVMe Highend card SSD PCIe, 2x 512 GB M.2 NVMe card SSD PCIe, 2x 512 GB M.2 NVMe Highend card SSD PCIe, 512 GB M.2 NVMe Highend module SSD PCIe, 512 GB M.2 NVMe module SSD SATA III, 1024 GB, 2.5-inch SSD SATA III, 240 GB High Endurance, 1DWDP, 2.5-inch SSD SATA III, 256 GB, 2.5-inch SSD SATA III, 256 GB, 2.5-inch, SED SSD SATA III, 480 GB High Endurance, 1DWDP, 2.5-inch SSD SATA III, 512 GB, 2.5-inch SSD SATA III, 512 GB, 2.5-inch, SED SSD SATA III, 960 GB High Endurance, 1DWDP, 2.5-inch	HDD SATA III, 7,200 rpm, 1,000 GB, 2.5-inch, business critical HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch 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, 2,000 GB, 3.5-inch HDD SATA III, 7,200 rpm, 2,000 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, 500 GB, 3.5-inch HDD SATA III, 7,200 rpm, 6,000 GB, 3.5-inch, business critical SSD PCIe, 1024 GB M.2 NVMe Highend module SSD PCIe, 1024 GB M.2 NVMe module SSD PCIe, 1x 1024 GB M.2 NVMe card SSD PCIe, 1x 2048 GB M.2 NVMe Highend card SSD PCIe, 1x 256 GB M.2 NVMe card SSD PCIe, 1x 256 GB M.2 NVMe Highend card SSD PCIe, 1x 512 GB M.2 NVMe card SSD PCIe, 1x 512 GB M.2 NVMe Highend card SSD PCIe, 1x1024 GB M.2 NVMe Highend card SSD PCIe, 2048 GB M.2 NVMe Highend module SSD PCIe, 256 GB M.2 NVMe Highend module SSD PCIe, 256 GB M.2 NVMe module SSD PCIe, 2x 1024 GB M.2 NVMe card SSD PCIe, 2x 1024 GB M.2 NVMe Highend card SSD PCIe, 2x 2048 GB M.2 NVMe Highend card SSD PCIe, 2x 256 GB M.2 NVMe card SSD PCIe, 2x 256 GB M.2 NVMe Highend card SSD PCIe, 2x 512 GB M.2 NVMe card SSD PCIe, 2x 512 GB M.2 NVMe Highend card SSD PCIe, 512 GB M.2 NVMe Highend module SSD PCIe, 512 GB M.2 NVMe module SSD SATA III, 1024 GB, 2.5-inch SSD SATA III, 240 GB High Endurance, 1DWDP, 2.5-inch SSD SATA III, 256 GB, 2.5-inch SSD SATA III, 256 GB, 2.5-inch, SED SSD SATA III, 480 GB High Endurance, 1DWDP, 2.5-inch SSD SATA III, 512 GB, 2.5-inch SSD SATA III, 512 GB, 2.5-inch, SED SSD SATA III, 960 GB High Endurance, 1DWDP, 2.5-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)	
	CELSIUS M7010X (S26361-K1507-V465)	CELSIUS M7010Xpower (S26361-K1507-V565)
Optical drive	MultiCard Reader 24in1 USB 2.0 3.5", USB 2.0 DVD-ROM DVD Super Multi, SATA DVD Super Multi ultra slim (tray), SATA BD Triple Writer SATA ultra slim (tray), SATA	MultiCard Reader 24in1 USB 2.0 3.5", USB 2.0 DVD-ROM DVD Super Multi, SATA DVD Super Multi ultra slim (tray), SATA BD Triple Writer SATA ultra slim (tray), SATA

	CELSIUS M7010X (S26361-K1507-V465)	CELSIUS M7010Xpower (S26361-K1507-V565)
Interfaces add on cards / components	WLAN 802.11ac (2x2) PCIe x1 and BT 5 (dedicated regions only) WLAN 802.11ac (2x2) PCIe x1 (dedicated regions only) Gigabit Ethernet PCIe x1 eSATA Interface Dual serial card PCIe x1 Dual 10 Gigabit Ethernet PCIe x8	WLAN 802.11ac (2x2) PCIe x1 and BT 5 (dedicated regions only) WLAN 802.11ac (2x2) PCIe x1 (dedicated regions only) Gigabit Ethernet PCIe x1 eSATA Interface Dual serial card PCIe x1 Dual 10 Gigabit Ethernet PCIe x8
Base unit	CELSIUS M7010X (S26361-K1507-V465)	CELSIUS M7010Xpower (S26361-K1507-V565)
Mainboard		
Mainboard type	D3498-U2	
Formfactor	extended ATX	
Chipset	Intel® X299	
Processor socket	Socket R4	
Processor quantity maximum	1	
Supported capacity RAM (max.)	256 GB	
Memory slots	8 DIMM (DDR4)	
Memory frequency	2,933 MT/s	
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 2,933MHz may be clocked down to 2,666 or 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	
USB internal	3, thereof 1 type A	
Ethernet (RJ-45)	1	
eSATA	1 (optional)	
Interface Module notes	Anytime USB charge functionality	

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 x4 (mech. x8)	1 x (200 mm / 7.87 inch) Full height
PCI-Express 3.0 x16	2 x (340 mm / 13.39 inch) Full height
Base unit	CELSIUS M7010X (S26361-K1507-V465) CELSIUS M7010Xpower (S26361-K1507-V565)

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)
Base unit	CELSIUS M7010X (S26361-K1507-V465)	CELSIUS M7010Xpower (S26361-K1507-V565)

Noise for standard configuration (HDD, ODD)

Related Processors for noise	140W Thermal Design Power (TDP) Processor	140W Thermal Design Power (TDP) Processor
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
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 M7010X	CELSIUS M7010Xpower
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® 7.0 compliant	
China	CCC (depending on configuration) 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® LiveSafe™ (provides award-winning antivirus protection for your PC and much more. 30 days trial pre-installed) Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy 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	
Base unit	CELSIUS M7010X (S26361-K1507-V465)	CELSIUS M7010Xpower (S26361-K1507-V565)

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)
Manageability software	DeskView Client DeskView Instant BIOS Management

Manageability

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
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Warranty

Warranty type	Bring-In / Onsite Service (for countries within region EMEA, for all other countries depending on local regulations)
Warranty Terms & Conditions	http://www.fujitsu.com/warranty

Product Support Services - the perfect extension

Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/
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Recommended Accessories

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 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 M7010X, 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 M7010X, 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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