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.

Perfomance 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)
- iF GOLD AWARD 2018

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





RADEONPROWX





Page 1 / 9

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	
	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	
	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)	
Operating systems		
Operating system pre-installed	Windows 10 Pro for Workstations Windows 7 Professional (available through downgrade rights from Windows 10 Pro)	Windows 10 Pro for Workstations Windows 7 Professional (available through downgrade rights from Windows 10 Pro)
Operating system compatible	Linux	Linux
Operating system notes	Certified for Red Hat© Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server	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	Ultra-high-end 3D: NVIDIA® Quadro® GV100, 32 GB, PCle 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: AMD Radeon™ Pro WX 7100 , 8 GB, PCle x16, 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	
	Midrange 3D: AMD Radeon™ Pro WX 5100, 8 GB, 320 stream processors, PCle x16, 4 x DisplayPort	
	Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCle x16, 4x miniDP	
	Entry 3D: AMD Radeon™ Pro WX 3100, 4 GB, 320 stream processors, PCle 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, PCle x16, 1x DisplayPort, 2x miniDP	
	Entry 3D: NVIDIA® Quadro® P620, 2 GB, PCIe x16, 4x miniDP	
	Entry 3D: NVIDIA® Quadro® P400 , 2 GB, PCle x16, 3x miniDP	
	Remote Graphics: CELSIUS RemoteAccess Quad Card, PCle x1, 4x miniDP, PCoIP	
	Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP	

Page 2 / 9 www.fujitsu.com/fts/CELSIUS

Used disk drives (internal)	CCD DCIa 1000 CD II 2 2 F iach hydrage critical
Hard disk drives (internal)	SSD PCle, 1000 GB U.2, 2.5-inch, business critical
	SSD PCIe, 500 GB U.2, 2.5-inch, business critical
	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 PCle, 1x 512 GB M.2 NVMe card
	SSD PCle, 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"

Page 3 / 9 www.fujitsu.com/fts/CELSIUS

SCSI / SAS Controller	LSI RAID Ctrl SAS 1GB (D3216) RAID 5/6 Ctrl. 12 G	•	
	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 (dec	licated regions only, up to BT 4.2 depending on OS version)	
	WLAN 802.11ac (2x2) PCle x1 FH (dedicated regions only) PLAN EP X550-T2 2x10GBASE-T Gigabit Ethernet PCle x1, DS		
	Gigabit Ethernet PCle x1		
	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	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		

Page 4 / 9

USB internal 3, thereof 1 type A Ethernet (R)-45) 1 EsANA 1 logitonell Interface Module notes Arytime USB charge functionality Imput device / components Drive bays Drive bays total 7 2.5finch internal bays 4 3.5-inch internal bays 1 3.5-inch external bays 1 5.5-inch external bays 1 5.5-inch external bays 1 5.7-inch external bays 1 5.7-			
### Diversion 1	Interfaces		
Ethernet (R)-45)			
eSATA I (pottonel) Interface Module notes Arytime USB charge functionality Input device / components Provides any strong of part of		3, thereof 1 type A	
Input device / components		<u> </u>	
Imput device / components Drive bays Drive bays total 7 7 7 7 7 7 7 7 7	eSATA		
Drive bays total 7 2.5-inch internal bays 4 3.5-inch internal bays 4 3.5-inch internal bays 4 3.5-inch external bays 1 Drive bay notes Total 4x 3.5-inch/2.5-inch Disk Tray front accessible (with Cold-plug access) M.2-280 1x on mainboard (for PCle SSD modules) Slots VELEPIERS 3.0 x1 2 x 1340 mm / 13.39 inch) Full height PCl-Express 3.0 x4 2 x 1340 mm / 13.39 inch) Full height PCl-Express 3.0 x4 2 x 1340 mm / 13.39 inch) Full height PCl-Express 3.0 x6 2 x 1340 mm / 13.39 inch) Full height PCl-Express 3	Interface Module notes	Anytime USB charge functionality	
Drive bays total 7 2.5-inch internal bays 4 3.5-inch inexternal bays 1 5.25-inch external bays 1 Drive bay notes Total 4x 3.5-inch Disk Tray front accessible (with Cold-plug access) M.2-2280 1 x on mainboard (for PCle SSD modules) Slots PCH-Express 3.0 x1 2 x (340 mm / 13.39 inch). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height PCH-Express 3.0 x8 1 x (200 mm). Full height <th>Input device / components</th> <th>_</th> <th></th>	Input device / components	_	
2.5-inch internal bays 4 3.5-inch internal bays 1 5.25-inch external	Drive bays		
3.5-inch internal bays 1 3.5-inch external bays 1 5.5-inch external bays 1 5.5-inch external bays 7 5.5-inch external ba	Drive bays total	7	
3.5-inch external bays 1 5.25-inch external bays 1 Total 4x 3.5-inch/2.5-inch Disk Tray front accessible (with Cold-plug access) 1 x on mainboard (for PCle 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 x8 2 x (340 mm / 13.39 inch) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 2 x (340 mm / 13.39 inch) Full height PCI-Express 3.0 x8 2 x (340 mm / 13.39 inch) Full height PCI-Express 3.0 x8 PCI-Express	2.5-inch internal bays	4	
5.25 inch external bays 1014 k3 x3.5 inchi2.5 inch Disk Tray front accessible (with Cold-plug access) Drive bay notes 1x on mainboard (for PCic SSD modules) Slots PCI-Express 3.0 x4 2 x (340 mm / 13.39 inch) Full height PCI-Express 3.0 x6 2 x (340 mm / 13.39 inch) Full height	3.5-inch internal bays	4	
Drive bay notes 1014 x 3.5 - inch 12.5 - inch 101sk Tray front accessible (with Cold plug access) M.2-280 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 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8	3.5-inch external bays	1	
N. 2-280	5.25-inch external bays	1	
Solition	Drive bay notes	Total 4x 3.5-inch/2.5-inch Disk Tray front accessible (with Co	old-plug access)
PCI-Express 3.0 x1 2 x (340 mm / 13.39 inch) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height Graphics brand name	M.2-2280	1 x on mainboard (for PCle SSD modules)	
PCI-Express 3.0 x1 2 x (340 mm / 13.39 inch) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height PCI-Express 3.0 x8 1 x (200 mm) Full height Graphics brand name	Slots		
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 x8 2 x (340 mm / 13.39 inch) Full height Graphics brand name Caphics brand name Graphics brand name WIDIA® Quadro® P6000, P5000 and P4000 support SLI Electrical values VOR 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) VORD 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 According to ISO 7779:2010, ECMA-74		2 x (340 mm / 13 39 inch) Full height	
PCI - Express 3.0 x8 1 x (200 mm) Full height CF - Express 3.0 x16 2 x (340 mm / 13.39 inch) Full height Graphics brand name Graphics brand name Electrical values Very 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 50 Hz - 60 Hz 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 2 graphics power rails (on Mainboard) 2 graphics power rails (on Mainboard) 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 enters / description According to ISO 7779:2010, ECMA-74 According to ISO 7779:2010, ECMA-74 Standard noise operation mode: CPU 30% load	-		
PCI-Express 3.0 x16 Graphics brand name Graphics notes NVIDIA® Quadro® P6000, P5000 and P4000 support SLI Electrical values Power consumption note 225 W depending on configuration Anated voltage range 100 V - 240 V Rated frequency range 50 Hz - 60 Hz Operating voltage range 90 V - 264 V 0perating line frequency range 47 Hz - 63 Hz 450 W up to 90% efficiency Power factor correction/active power 2 graphics power rails (on Mainboard) 2 graphics power rails (on Mainboard) Noise for standard configuration (HDD, UDD) Related Processors for noise Intel® Xeon® Processor W Family W-2125 Standard noise emission According to 150 7779:2010, ECMA-74 A-weighted sound power level Luxad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) Standard noise operation mode: CPU 90% load Standard noise	•		
Graphics brand name Graphics notes NVIDIA® Quadro® P6000, P5000 and P4000 support SLI Electrical values Power consumption note Rated voltage range 100 V - 240 V Rated frequency range 50 Hz - 60 Hz Operating line frequency range 90 V - 264 V Operating line frequency range 47 Hz - 63 Hz Max. output of single power supply 450 W up to 90% efficiency active 2 graphics power rails (on Mainboard) Noise for standard configuration (HDD, DDD) Related Processors for noise Standard noise notes / description Standard noise operation mode: CPU 30 K 9 Z 0 B(A) Bystander position Standard noise operation mode: CPU 30 K 9 Z 0 B(A) Bystander position Standard noise operation mode: CPU 30 K 9 Z 8 B(A) Bystander position 4.5 B / 28 B(A) Bystander position Standard noise operation mode: CDD 4.5 B / 28 B(A) Bystander position Standard noise operation mode: CDD 3.7 B / 21 dB(A) Bystander position Standard noise operation mode: CDD 3.7 B / 21 dB(A) Bystander position	<u> </u>		
Power consumption note 225 W depending on configuration 400 W depending on configuration Rated voltage range 100 V - 240 V 100 V - 240 V 100 V - 240 V	Graphics brand name		
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) Noise for standard configuration (HDD, ODD) 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 power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) A-weighted sound pressure level LpAm (in dB(A)) Standard noise operation mode: CPU 90% load 3.6 B / 20 dB(A) Bystander position 3.6 B / 20 dB(A) Bystander position Standard noise operation mode: Idle mode 3.5 B / 19 dB(A) Bystander position 3.5 B / 19 dB(A)	Graphics notes	NVIDIA® Quadro® P6000, P5000 and P4000 support SLI	
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 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 active 90wer factor correction/active power active 2 graphics power rails (on Mainboard) 8 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 related A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound power level LpAm (in dB(A)) Standard noise operation mode: CPU 3.6 B / 20 dB(A) Bystander position 3.6 B / 20 dB(A) Bystander position Standard noise operation mode: HDD 3.7 B / 20 dB(A) Bystander position 3.7 B / 20 dB(A) Bystander position Standard noise operation mode: Idle mode Standard noise operation mode: ODD 4.5 B / 28 dB(A) Bystander position 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 5.5 B / 28 dB(A) Bystander position 4.5 B / 28 dB(A) Bystander position 5.5 B / 28 dB(A) Bystander position 5.5 B / 29 dB(A) Bystander position 5.5 B / 28 dB(A) Bystander positio	Electrical values		
Rated frequency range50 Hz - 60 Hz50 Hz - 60 HzOperating voltage range90 V - 264 V90 V - 264 VOperating line frequency range47 Hz - 63 Hz47 Hz - 63 HzMax. output of single power supply450 W up to 90% efficiency800 W up to 90% efficiencyPower factor correction/active poweractiveactivePower supply output2 graphics power rails (on Mainboard)2 graphics power rails (on Mainboard)Noise for standard configuration (HDD, ODD)VDDRelated Processors for noiseIntel® Xeon® Processor W Family W-2125Intel® Xeon® Processor W Family W-2125Standard noise emissionAccording to ISO 7779:2010, ECMA-74According to ISO 7779:2010, ECMA-74Standard noise notes / descriptionA-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 90% load3.7 B / 20 dB(A) Bystander position3.7 B / 20 dB(A) Bystander positionStandard noise operation mode: HDD 10ad3.5 B / 19 dB(A) Bystander position3.5 B / 19 dB(A) Bystander positionStandard noise operation mode: ODD 10ad4.5 B / 28 dB(A) Bystander position4.5 B / 28 dB(A) Bystander positionStandard noise operation mode: ODD 10ad4.5 B / 28 dB(A) Bystander position4.5 B / 28 dB(A) Bystander positionStandard noise operation mode: ODD 10ad4.5 B / 28 dB(A) Bystander position4.5 B / 28 dB(A) Bystander positionStandard noise operation mode: ODD 10ad4.5 B /	Power consumption note	225 W depending on configuration	400 W depending on configuration
Operating voltage range90 V - 264 V90 V - 264 VOperating line frequency range47 Hz - 63 Hz47 Hz - 63 HzMax. output of single power supply Power factor correction/active power active450 W up to 90% efficiency active800 W up to 90% efficiency activePower supply output2 graphics power rails (on Mainboard)2 graphics power rails (on Mainboard)Noise for standard configuration (HDD, ODD)Noise for standard configuration (HDD, ODD)Related Processors for noiseIntel® Xeon® Processor W Family W-2125Intel® Xeon® Processor W Family W-2125Standard noise emissionAccording to ISO 7779:2010, ECMA-74According to ISO 7779:2010, ECMA-74Standard noise notes / description related A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))A-weighted sound pressure level Lvad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))Standard noise operation mode: CPU 90% load3.6 B / 20 dB(A) Bystander position3.7 B / 20 dB(A) Bystander positionStandard noise operation mode: HDD load3.5 B / 19 dB(A) Bystander position3.5 B / 19 dB(A) Bystander positionStandard noise operation mode: ODD load4.5 B / 28 dB(A) Bystander position4.5 B / 28 dB(A) Bystander positionStandard noise operation mode: ODD load4.5 B / 28 dB(A) Bystander position4.5 B / 28 dB(A) Bystander positionStandard noise operation mode: ODD load4.5 B / 28 dB(A) Bystander position4.5 B / 28 dB(A) Bystander position	Rated voltage range	100 V - 240 V	100 V - 240 V
Operating line frequency range47 Hz - 63 Hz47 Hz - 63 HzMax. output of single power supply450 W up to 90% efficiency800 W up to 90% efficiencyPower factor correction/active poweractiveactivePower supply output2 graphics power rails (on Mainboard)2 graphics power rails (on Mainboard)Noise for standard configuration (HDD, ODD)Wellow the processors for noiseIntel® Xeon® Processor W Family W-2125Intel® Xeon® Processor W Family W-2125Standard noise emissionAccording to ISO 7779:2010, ECMA-74According to ISO 7779:2010, ECMA-74According to ISO 7779:2010, ECMA-74Standard noise notes / descriptionA-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% load3.6 B / 20 dB(A) Bystander position3.7 B / 20 dB(A) Bystander positionStandard noise operation mode: HDD 10ad3.5 B / 19 dB(A) Bystander position3.5 B / 19 dB(A) Bystander positionStandard noise operation mode: ODD 10ad4.5 B / 28 dB(A) Bystander position4.5 B / 28 dB(A) Bystander positionStandard noise operation mode: ODD 10ad4.5 B / 21 dB(A) Bystander position4.5 B / 21 dB(A) Bystander positionStandard noise operation mode: ODD 10ad4.5 B / 21 dB(A) Bystander position3.7 B / 21 dB(A) Bystander position	Rated frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
Max. output of single power supply 450 W up to 90% efficiency active active Power factor correction/active power 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 Standard noise emission 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)) Standard noise operation mode: CPU 50% load Standard noise operation mode: CPU 90% load Standard noise operation mode: HDD load Standard noise operation mode: MBD 1	Operating voltage range	90 V - 264 V	90 V - 264 V
Power factor correction/active poweractiveactivePower supply output2 graphics power rails (on Mainboard)2 graphics power rails (on Mainboard)Noise for standard configuration (HDD, ODD)VEX.3 graphics power rails (on Mainboard)Related Processors for noiseIntel® Xeon® Processor W Family W-2125Intel® Xeon® Processor W Family W-2125Standard noise emissionAccording to ISO 7779:2010, ECMA-74According to ISO 7779:2010, ECMA-74Standard noise notes / descriptionA-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))A-weighted sound pressure level LpAm (in dB(A))Standard noise operation mode: CPU 50% load3.6 B / 20 dB(A) Bystander position3.6 B / 20 dB(A) Bystander positionStandard noise operation mode: HDD load3.5 B / 19 dB(A) Bystander position3.5 B / 19 dB(A) Bystander positionStandard noise operation mode: Idle mode3.5 B / 19 dB(A) Bystander position3.5 B / 19 dB(A) Bystander positionStandard noise operation mode: ODD load4.5 B / 28 dB(A) Bystander position4.5 B / 28 dB(A) Bystander positionStandard noise operation mode: ODD load4.5 B / 28 dB(A) Bystander position3.7 B / 21 dB(A) Bystander position	Operating line frequency range	47 Hz - 63 Hz	47 Hz - 63 Hz
Power supply output2 graphics power rails (on Mainboard)2 graphics power rails (on Mainboard)Noise for standard configuration (HDD, ODD)Noise for standard configuration (HDD, ODD)Related Processors for noiseIntel® Xeon® Processor W Family W-2125Intel® Xeon® Processor W Family W-2125Standard noise emissionAccording to ISO 7779:2010, ECMA-74According to ISO 7779:2010, ECMA-74Standard noise notes / descriptionA-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))A-weighted sound pressure level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))Standard noise operation mode: CPU 50% load3.6 B / 20 dB(A) Bystander position3.6 B / 20 dB(A) Bystander positionStandard noise operation mode: HDD load3.5 B / 19 dB(A) Bystander position3.5 B / 19 dB(A) Bystander positionStandard noise operation mode: Idle mode3.5 B / 19 dB(A) Bystander position3.5 B / 19 dB(A) Bystander positionStandard noise operation mode: ODD load4.5 B / 28 dB(A) Bystander position4.5 B / 28 dB(A) Bystander positionStandard noise operation mode: Office3.7 B / 21 dB(A) Bystander position4.5 B / 28 dB(A) Bystander position	Max. output of single power supply	450 W up to 90% efficiency	800 W up to 90% efficiency
Noise for standard configuration (HDD, ODD) Related Processors for noise	Power factor correction/active power	active	active
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 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 Standard noise operation mode: CPU 90% load Standard noise operation mode: HDD load Standard noise operation mode: Idle mode Standard noise operation mode: Idle mode Standard noise operation mode: ODD load Standard noise operation mode: ODD Standard noise	Power supply output	2 graphics power rails (on Mainboard)	2 graphics power rails (on Mainboard)
Standard noise emission According to ISO 7779:2010, ECMA-74 According to ISO 7779:2010, ECMA-74 A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) Standard noise operation mode: CPU 3.6 B / 20 dB(A) Bystander position Standard noise operation mode: CPU 3.7 B / 20 dB(A) Bystander position 3.7 B / 20 dB(A) Bystander position 3.7 B / 20 dB(A) Bystander position 3.8 B / 19 dB(A) Bystander position Standard noise operation mode: HDD load Standard noise operation mode: Idle mode Standard noise operation mode: ODD load Standard noise operation mode: ODD load Standard noise operation mode: ODD load 3.7 B / 21 dB(A) Bystander position	Noise for standard configuration (HDD,	ODD)	
Standard noise notes / description A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) Standard noise operation mode: CPU 3.6 B / 20 dB(A) Bystander position Standard noise operation mode: CPU 90% load Standard noise operation mode: HDD 1000 3.5 B / 19 dB(A) Bystander position Standard noise operation mode: HDD 1000 3.5 B / 19 dB(A) Bystander position Standard noise operation mode: Idle mode Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD 1000 4.5 B / 28 dB(A) Bystander position	Related Processors for noise	Intel® Xeon® Processor W Family W-2125	Intel® Xeon® Processor W Family W-2125
related A-weighted sound pressure level LpAm (in dB(A)) Standard noise operation mode: CPU 50% load Standard noise operation mode: CPU 50% load Standard noise operation mode: CPU 90% load Standard noise operation mode: HDD load Standard noise operation mode: HDD load Standard noise operation mode: Idle mode Standard noise operation mode: Idle mode Standard noise operation mode: ODD load Standard noise operation mode: OFfice load load load load load load load load	Standard noise emission	According to ISO 7779:2010, ECMA-74	According to ISO 7779:2010, ECMA-74
Standard noise operation mode: CPU 3.6 B / 20 dB(A) Bystander position 3.6 B / 20 dB(A) Bystander position 3.7 B / 20 dB(A) Bystander position 3.7 B / 20 dB(A) Bystander position 90% load 3.5 B / 19 dB(A) Bystander position 3.5 B / 28 dB(A) Bystander position 4.5 B / 28 dB(A) Bystander position load 3.7 B / 21 dB(A) Bystander position	Standard noise notes / description		
Standard noise operation mode: CPU 90% load 3.7 B / 20 dB(A) Bystander position 3.7 B / 20 dB(A) Bystander position 3.5 B / 19 dB(A) Bystander position 3.5 B / 19 dB(A) Bystander position load 3.5 B / 19 dB(A) Bystander position mode Standard noise operation mode: ODD 4.5 B / 28 dB(A) Bystander position 4.5 B / 28 dB(A) Bystander position load Standard noise operation mode: Office 3.7 B / 21 dB(A) Bystander position 3.7 B / 21 dB(A) Bystander position	Standard noise operation mode: CPU		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Standard noise operation mode: HDD load Standard noise operation mode: Idle mode Standard noise operation mode: Idle mode Standard noise operation mode: ODD Standard noise operation mode: ODD load Standard noise operation mode: ODD Standard noise operation mode: OFfice 3.5 B / 19 dB(A) Bystander position 3.5 B / 19 dB(A) Bystander position 4.5 B / 28 dB(A) Bystander position 4.5 B / 28 dB(A) Bystander position 3.7 B / 21 dB(A) Bystander position	Standard noise operation mode: CPU	3.7 B / 20 dB(A) Bystander position	3.7 B / 20 dB(A) Bystander position
Standard noise operation mode: Idle mode Standard noise operation mode: ODD 4.5 B / 28 dB(A) Bystander position Standard noise operation mode: ODD load Standard noise operation mode: Office 3.7 B / 21 dB(A) Bystander position 3.5 B / 19 dB(A) Bystander position 4.5 B / 28 dB(A) Bystander position 3.7 B / 21 dB(A) Bystander position	Standard noise operation mode: HDD	3.5 B / 19 dB(A) Bystander position	3.5 B / 19 dB(A) Bystander position
Standard noise operation mode: ODD 4.5 B / 28 dB(A) Bystander position 4.5 B / 28 dB(A) Bystander position load Standard noise operation mode: Office 3.7 B / 21 dB(A) Bystander position 3.7 B / 21 dB(A) Bystander position	Standard noise operation mode: Idle	3.5 B / 19 dB(A) Bystander position	3.5 B / 19 dB(A) Bystander position
Standard noise operation mode: Office 3.7 B / 21 dB(A) Bystander position 3.7 B / 21 dB(A) Bystander position	Standard noise operation mode: ODD	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

Page 5 / 9 www.fujitsu.com/fts/CELSIUS

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 M770	CELSIUS M770power
Model	CM17	·
Germany	GS depending on configuration	
Еигоре	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 securi Microsoft Office (buy license to activate the pre-installed M	
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)

Page 6 / 9 www.fujitsu.com/fts/CELSIUS

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	
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 EMEIA, for all other countries depending on local regulations)	
Warranty Terms & Conditions Product Related Services - the perfe	http://support.ts.fujitsu.com/warranty ect 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 Order Code: office work extremely comfortable. This highly reliable display offers superb S26361-K1497-V141 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 accidently spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.

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

Page 8 / 9 www.fujitsu.com/fts/CELSIUS

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



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 2018-05-01 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