

Fujitsu recommends Windows 10 Pro.

Data Sheet

FUJITSU Workstation CELSIUS R970

Unleash The Monster Inside

Do you require the maximum in performance for simulations, analysis, rendering or High Performance Computing? Fujitsu's CELSIUS R970 desktop workstation is designed to surpass all expectations. Achieving first-class benchmark results, this reliable, high-end dual processor desktop workstation is optimized for extremely demanding and memory intensive multi-threaded applications.



Unleash the power

Achieve the optimum out of any demanding application

- Intel® Xeon® processor Scalable Family up to 2 x 28 cores
- Support of Windows 10 Pro for Workstations
- Support of up to 1024 GB DDR4 2,933 ECC memory
- Fujitsu SSD PCIe card (up to 2 x 1 TB)

Maximum expandability

Broad selection and configurability options

- Broad choice of ISV certified professional graphics cards from AMD and Nvidia
- Up to two ultra-high-end, three high-end 3D or four mid-range graphic cards for simulation or photorealistic renderings
- Compute graphics cards of up to NVIDIA® Tesla® M60

Work around the clock

Certain components can be configured to support an extended lifetime usage

- Selection of top-quality components and comprehensive testing in certified in-house laboratories
- Full support for ISV applications and easy integration into existing IT environments
- Server capabilities: SAS RAID controller, Windows® Server 2016, Dual 10 Gigabit Ethernet

We are (VR) ready

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

- Up to NVIDIA® Quadro® RTX4000, RTX5000 and RTX6000 VR-ready graphics cards



RADEON PRO WX

Components

	CELSIUS R970 (S26361-K1449-V515)	CELSIUS R970B (S26361-K1449-V565)
Processor	<p>Intel® Xeon® Silver processor 4110 (8C, 2.10 GHz, up to 2.4 GHz, 9.6 GT/s)</p> <p>Intel® Xeon® Silver processor 4112 (4C, 2.60 GHz, up to 2.9 GHz, 9.6 GT/s)</p> <p>Intel® Xeon® Silver processor 4114 (10C, 2.20 GHz, up to 3.0 GHz, 9.6 GT/s)</p> <p>Intel® Xeon® Gold processor 5118 (12C, 2.30 GHz, up to 3.2 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 5120 (14C, 2.20 GHz, up to 3.2 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 5122 (4C, 3.60 GHz, up to 3.7 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 6128 (6C, 3.40 GHz, up to 3.7 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 6132 (14C, 2.60 GHz, up to 3.7 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 6134 (8C, 3.20 GHz, up to 3.7 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 6136 (12C, 3.00 GHz, up to 3.3 GHz, 9.6 GT/s)</p> <p>Intel® Xeon® Gold processor 6140 (18C, 2.30 GHz, up to 3.0 GHz, 9.6 GT/s)</p> <p>Intel® Xeon® Gold processor 6144 (8C, 3.50 GHz, up to 4.1 GHz, 9.6 GT/s)</p> <p>Intel® Xeon® Gold processor 6148 (20C, 2.40 GHz, up to 3.7 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 6150 (18C, 2.70 GHz, up to 3.7 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 6152 (22C, 2.10 GHz, up to 3.7 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Platinum processor 8160 (24C, 2.10 GHz, up to 2.8 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Platinum processor 8176 (28C, 2.10 GHz, up to 2.8 GHz, 10.4 GT/s)</p>	<p>Intel® Xeon® Silver processor 4208 (8C, 2.10 GHz, up to 3.2 GHz, 9.6 GT/s)</p> <p>Intel® Xeon® Silver processor 4210 (10C, 2.20 GHz, up to 3.2 GHz, 9.6 GT/s)</p> <p>Intel® Xeon® Silver processor 4214 (12C, 2.20 GHz, up to 3.2 GHz, 9.6 GT/s)</p> <p>Intel® Xeon® Gold processor 5217 (8C, 3.00 GHz, up to 3.7 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 5218 (16C, 2.30 GHz, up to 3.9 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 5220 (18C, 2.20 GHz, up to 3.9 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 5222 (4C, 3.80 GHz, up to 3.7 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 6240 (18C, 2.60 GHz, up to 3.9 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Gold processor 6244 (8C, 3.60 GHz, up to 4.4 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Platinum processor 8260 (24C, 2.40 GHz, up to 3.9 GHz, 10.4 GT/s)</p> <p>Intel® Xeon® Platinum processor 8276 (28C, 2.20 GHz, up to 4.0 GHz, 10.4 GT/s)</p>
Operating systems		
Operating system pre-installed	Windows 10 Pro for Workstations	Windows 10 Pro for Workstations
Operating system compatible	Windows 7 Professional (available through downgrade rights from Windows 10 Pro) Windows® Server 2016 Linux	Windows® Server 2019 Linux
Operating system notes	<p>Certified for Red Hat® Enterprise Linux</p> <p>Certified for SUSE Enterprise Desktop</p> <p>Certified for SUSE Enterprise Server</p> <p>Windows 10 Support: After the end of the product life FUJITSU will continue to test and support all upcoming Windows 10 releases for a period of maximum 5 years – depending on the available extension of hardware services through FUJITSU Warranty top ups. For details please see “FUJITSU Service Statement for Windows 10 Semi-Annual-Channel Support” at http://support.ts.fujitsu.com.</p>	<p>Certified for Red Hat® Enterprise Linux</p> <p>Certified for SUSE Enterprise Desktop</p> <p>Certified for SUSE Enterprise Server</p> <p>Windows 10 Support: After the end of the product life FUJITSU will continue to test and support all upcoming Windows 10 releases for a period of maximum 5 years – depending on the available extension of hardware services through FUJITSU Warranty top ups. For details please see “FUJITSU Service Statement for Windows 10 Semi-Annual-Channel Support” at http://support.ts.fujitsu.com.</p>

	CELSIUS R970 (S26361-K1449-V515)	CELSIUS R970B (S26361-K1449-V565)
Memory modules	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,666 MT/s 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,666 MT/s 32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,666 MT/s 64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 2,666 MT/s	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,933 MT/s 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,933 MT/s 32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,933 MT/s 64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 2,933 MT/s
Graphics	CELSIUS R970 (S26361-K1449-V515) 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 Ultra-high-end 3D: NVIDIA® Quadro® P6000, 24 GB, PCIe x16, 1 x Dual Link DVI-D, 4 x DisplayPort Ultra-high-end 3D: NVIDIA® Quadro® P5000, 16 GB, PCIe x16, 1 x Dual Link DVI-D, 4 x DisplayPort Ultra-high-end 3D: NVIDIA® Quadro® GV100, 32 GB, PCIe x16, 4 x DisplayPort High-end 3D: NVIDIA® Quadro® RTX 4000, 8 GB, PCIe x16, 3 x DisplayPort, 1 x Virtual Link High-end 3D: NVIDIA® Quadro® P4000, 8 GB, PCIe x16, 4 x DisplayPort High-end 3D: AMD Radeon™ Pro WX 7100 , 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, 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 Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4 x miniDP, PCoIP Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2 x miniDP, PCoIP Others: MiniDP to DP Adapter Cable Others: DP to DVI-D (single link) Adapter Cable	CELSIUS R970B (S26361-K1449-V565) 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 Ultra-high-end 3D: NVIDIA® Quadro® GV100, 32 GB, PCIe x16, 4 x DisplayPort 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: NVIDIA® Quadro® P2000, 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 Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4 x miniDP, PCoIP Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2 x miniDP, PCoIP Others: MiniDP to DP Adapter Cable Others: DP to DVI-D (single link) Adapter Cable
Supercomputing	CELSIUS R970 (S26361-K1449-V515) Coprocessor: NVIDIA® Tesla® M60, 16 GB, 4096 cores, PCIe x16 Coprocessor: NVIDIA® Tesla® M60, 16 GB, 4096 cores, PCIe x16 Coprocessor: NVIDIA® Tesla® M60, 16 GB, 4096 cores, PCIe x16	

	CELSIUS R970 (S26361-K1449-V515)	CELSIUS R970B (S26361-K1449-V565)
Hard disk drive	HDD SAS, 10,000 rpm, 1200 GB, 2.5-inch HDD SAS, 10,000 rpm, 1800 GB, 2.5-inch HDD SAS, 10,000 rpm, 2400 GB, 2.5-inch HDD SAS, 10,000 rpm, 600 GB, 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, 1000 GB U.2, 2.5-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, 500 GB U.2, 2.5-inch, business critical 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 SAS, 10,000 rpm, 1200 GB, 2.5-inch HDD SAS, 10,000 rpm, 1800 GB, 2.5-inch HDD SAS, 10,000 rpm, 2400 GB, 2.5-inch HDD SAS, 10,000 rpm, 600 GB, 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, 1000 GB U.2, 2.5-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, 500 GB U.2, 2.5-inch, business critical SSD PCIe, 512 GB M.2 NVMe Highend module SSD PCIe, 512 GB M.2 NVMe module SSD PCIe, 512 GB M.2 NVMe module, SED 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 R970 (S26361-K1449-V515)	CELSIUS R970B (S26361-K1449-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

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	
	Intel VROC HW key Premium U.2	
	Flash Backup Unit (FBU + TFM) For RAID controller D3216	
	CELSIUS R970 (S26361-K1449-V515)	CELSIUS R970B (S26361-K1449-V565)
Interfaces add on cards / components	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 PLAN EM X557-T2 2x10GBASE-T PLAN EM 2x10Gb SFP+ Intel 2x1Gb Ethernet Adapter I350-T2 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) PLAN EP X550-T2 2x10GBASE-T PLAN EM X557-T2 2x10GBASE-T PLAN EM 2x10Gb SFP+ Intel 2x1Gb Ethernet Adapter I350-T2 Gigabit Ethernet PCIe x1 eSATA Interface Dual serial card PCIe x1 Dual 10 Gigabit Ethernet PCIe x8
Base unit	CELSIUS R970 (S26361-K1449-V515)	CELSIUS R970B (S26361-K1449-V565)
Mainboard		
Mainboard type	D3488-A1X	D3488-A2X
Formfactor	proprietary	
Chipset	Intel® C624	
Processor socket	Socket P	
Processor quantity maximum	2	
Supported capacity RAM (max.)	1,024 GB	
Memory slots	16 (8 per processor) DIMM (DDR4) ECC	
Memory frequency	2,666 MT/s	2,933 MT/s
Memory notes	6 memory channels, thereof 2 channels supporting 2 DIMMs per channel. For optimized 6 channel performance, a minimum of 6 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. Supports up to 1TB of main memory (offered on request). This requires dual CPU usage with selected CPUs and 128GB DDR4 memory modules.	6 memory channels, thereof 2 channels supporting 2 DIMMs per channel. For optimized 6 channel performance, a minimum of 6 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. Supports up to 2TB of main memory (offered on request). This requires dual CPU usage with selected CPUs and 128GB DDR4 memory modules.
LAN	10/100/1,000 Mbit/s Intel® I219LM and Intel® I210	
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	10	
thereof SATA III	10	
Controller functions	Serial ATA III (6 Gbit) AHCI RAID 0/1/5/10	
Interfaces		
Audio: in (rear)	1	
Audio: out (rear)	1	
Audio: in	1	

Interfaces

Audio: out	1
Internal speakers	1
USB 2.0 total	9
USB 3.1 Gen1 (USB 3.0) total	4
USB 3.1 Gen2 total	optional via add on card
USB front	2x USB 2.0; 2x USB 3.1 (Gen1); optional: 1x USB 3.1 Type-C (Gen2) via add on card and front adapter bay
USB rear	6
USB internal	3, thereof 1 type A
Ethernet (RJ-45)	2
eSATA	1 (optional)
Interface Module notes	Anytime USB charge functionality

Input device / components

	Optical USB wheel mouse
Input devices (optional)	Keyboard Optical USB tilt wheel mouse Optical USB wheel mouse

Drive bays

Drive bays total	12
2.5-inch internal bays	8
3.5-inch internal bays	4
3.5-inch external bays	2
5.25-inch external bays	1
Drive bay notes	Up to 8x 2.5-inch HDDs (cold plug) and 1x 2.5-inch SSD or Up to 4x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSD or Up to 2x 2.5-inch and 2x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSD
M.2-2280	1 x on mainboard (for PCIe SSD modules)

Slots

PCI-Express 3.0 x8	2 x (200 mm) Full height (1x PCIe 3.0x8 per processor)
PCI-Express 3.0 x16	4 x (340 mm / 13.39 inch) Full height (2x PCIe 3.0x16 per processor)
PCI (32-bit / 33 MHz)	1 x (312 mm / 12.29 inch) Full height
PCI-Express 3.0 x8 (internal)	1 x (170 mm / 6.69 inch) Full height (available with 2nd CPU)

Graphics brand name

Graphics notes	NVIDIA® Quadro® P6000, P5000 and P4000 support SLI	NVIDIA® Quadro® RTX 5000, RTX 6000 support NVLink
Base unit	CELSIUS R970 (S26361-K1449-V515)	CELSIUS R970B (S26361-K1449-V565)

Electrical values

Power consumption note	500 W depending on configuration	
Rated voltage range	100 V - 240 V	
Rated frequency range	50 Hz - 60 Hz	
Operating voltage range	90 V - 264 V	
Operating line frequency range	47 Hz - 63 Hz	
Max. output of single power supply	1000 W up to 90% efficiency	
Power factor correction/active power	active	
Power supply output	2 graphics power rails (8pin connector / 18.5A@12V)	
Base unit	CELSIUS R970 (S26361-K1449-V515)	CELSIUS R970B (S26361-K1449-V565)

Noise for standard configuration (HDD, ODD)

Related Processors for noise	Intel® Xeon® Gold processor 6128	Intel® Xeon® Gold processor 6240
Standard noise emission	8x4 GB, HDD, ODD, Windows According to ISO9296 (LpAm at bystander position)	8x4 GB, HDD, ODD, Windows According to ISO9296 (LpAm at bystander position)

Noise for standard configuration (HDD, ODD)

Standard noise notes / description	A-weighted sound power level Lw _d (in B) / Workplace related A-weighted sound pressure level Lp _{Am} (in dB(A))	A-weighted sound power level Lw _d (in B) / Workplace related A-weighted sound pressure level Lp _{Am} (in dB(A))
Standard noise operation mode: CPU 50% load	4.0 B / 24 dB(A) Bystander position	4.7 B / 30 dB(A) Bystander position
Standard noise operation mode: CPU 90% load	4.0 B / 24 dB(A) Bystander position	4.7 B / 30 dB(A) Bystander position
Standard noise operation mode: HDD load	4.0 B / 24 dB(A) Bystander position	3.9 B / 23 dB(A) Bystander position
Standard noise operation mode: Idle mode	4.0 B / 23 dB(A) Bystander position	3.9 B / 22 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	4.0 B / 23 dB(A) Bystander position	3.9B / 22 dB(A) Bystander position

Dimensions / Weight / Environmental

Dimensions (W x D x H)	186 x 618 x 430 mm 7.32 x 24.3 x 16.9 inch
Operating position	Vertical / horizontal
Weight	approx. 20 kg
Weight (lbs)	approx. 44.8 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 R970
Model	ETNA-L
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)
China	CCC 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 Microsoft® Office Professional 2019 Microsoft® Office Home and Business 2019 (A Microsoft Account is required to activate each copy of these products. For purchase and activation only in the region in which it was acquired.)
Base unit	CELSIUS R970 (S26361-K1449-V515) CELSIUS R970B (S26361-K1449-V565)

Security	
Physical Security	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)
System and BIOS Security	Embedded security (TPM 2.0) EraseDisk 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)
Workplace Embedded Tools	Auto BIOS Update via Fujitsu Server Auto BIOS Update via customer server (optional) Easy PC Protection (optional) Easy Restore (optional)
Manageability	
Manageability technology	iAMT 11.6 (depending on processor) DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) 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 (5U)
Spare part availability	5 years
Packaging information	
Max. quantity / pallet	11
Packaging notes	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://www.fujitsu.com/warranty
Product Support Services - the perfect extension	
Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years after end of product life
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/

Recommended Accessories

Display P27-8 TS Pro



If you're a pixel, color and performance-hungry professional using demanding applications, the FUJITSU P27-8 TS Pro Display is the perfect choice. The display provides outstanding picture performance thanks to cutting-edge panel technology and 3.7 Mio pixels. It also boasts unique and innovative features such as our patent-applied Presence Sensor technology and USB support during standby.

Order Code:
S26361-K1594-V160

Display B34-9 UE



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

Order Code:
S26361-K1642-V140

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 KB955



The KB955 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB955 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-K955-L4** (**:
Country specific variation)

More information

Fujitsu products, solutions & services

In addition to the FUJITSU Workstation CELSIUS R970, 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 R970, 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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