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 2,666 ECC memory
- Fujitsu SSD PCle 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

#### Made in Germany

Design, engineering and production in Germany

- In-house developed systemboard
- Comprehensive testing in certified in-house laboratories for 24/7 operation
- Excellent thermal management concept allows for an optimal cooling of key components
- Whisper quiet: 23 dB(A)

#### 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





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# Components

Processor	Intel® Xeon® Platinum processor 8176 (28C, 2.10 GHz, up to 2.8 GHz, 10.4 GT/s)		
	Intel® Xeon® Platinum processor 8160 (24C, 2.10 GHz, up to 2.8 GHz, 10.4 GT/s)		
	Intel® Xeon® Gold processor 6150 (18C, 2.70 GHz, up to 3.7 GHz, 10.4 GT/s)		
	Intel® Xeon® Gold processor 6144 (8C, 3.50 GHz, up to 4.1 GHz, 9.6 GT/s)		
	Intel® Xeon® Gold processor 6140 (18C, 2.30 GHz, up to 3.0 GHz, 9.6 GT/s)		
	Intel® Xeon® Gold processor 6136 (12C, 3.00 GHz, up to 3	3.3 GHz, 9.6 GT/s)	
	Intel® Xeon® Gold processor 6134 (8C, 3.20 GHz, up to 3.7 GHz, 10.4 GT/s)		
	Intel® Xeon® Gold processor 6132 (14C, 2.60 GHz, up to 3.7 GHz, 10.4 GT/s)		
	Intel® Xeon® Gold processor 6128 (6C, 3.40 GHz, up to 3.7 GHz, 10.4 GT/s)		
	Intel® Xeon® Gold processor 5122 (4C, 3.60 GHz, up to 3.7 GHz, 10.4 GT/s) Intel® Xeon® Gold processor 5120 (14C, 2.20 GHz, up to 3.2 GHz, 10.4 GT/s) Intel® Xeon® Gold processor 5118 (12C, 2.30 GHz, up to 3.2 GHz, 10.4 GT/s)		
	Intel® Xeon® Silver processor 4112 (4C, 2.60 GHz, up to 2.9 GHz, 9.6 GT/s)		
	Intel® Xeon® Silver processor 4110 (8C, 2.10 GHz, up to 2.4 GHz, 9.6 GT/s)		
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	Windows® Server 2016 Linux	Windows® Server 2016 Linux	
Operating system notes	Certified for Red Hat© Enterprise Linux	Certified for Red Hat© Enterprise Linux	
, ,,	Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server	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, UDIMM		
	16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,666 MHz, UDIMM		
	32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,666 MHz, UDIMM		
	64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 2,666 MHz		
 Graphics	Ultra-high-end 3D: NVIDIA® Quadro® GV100, 32 GB, PCIe x16, 4 x DisplayPort		
	Ultra-high-end 3D: NVIDIA® Quadro® P6000, 24 GB, PCIe x16, 4 x DisplayPort		
	Ultra-high-end 3D: NVIDIA® Quadro® P5000, 24 dB, 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, PCIe x16, 1x Dual Link DVI-D, 4 x DisplayPoit		
	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, PCIe x16, 4x miniDP		
	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: AWD Radeon Pio WX 3100, 4 GB, 320 Stream processors, PCIe x16, 1x DisplayPort, 2x minibP  Entry 3D: NVIDIA® Quadro® P600, 2 GB, PCIe x16, 4x miniDP		
	Entry 3D: NVIDIA® Quadro® Prouv, 2 GB, Pcle x16, 4x IllilliDP  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, 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		
Personal Supercomputing	Coprocessor: NVIDIA® Tesla® M60, 16 GB, 4096 cores, PCI	e x16	

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### Hard disk drives (internal)

SSD PCIe, 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 PCIe, 1x 512 GB M.2 NVMe card
SSD PCIe, 1x 256 GB M.2 NVMe card
SSD SATA III, 960 GB High Endurance, 3DWPD, 2.5-inch
SSD SATA III, 960 GB High Endurance, 1DWDP, 2.5-inch
SSD SATA III, 480 GB High Endurance, 3DWPD, 2.5-inch
SSD SATA III, 480 GB High Endurance, 1DWDP, 2.5-inch
SSD SATA III, 240 GB High Endurance, 3DWPD, 2.5-inch
SSD SATA III, 240 GB High Endurance, 1DWDP, 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
One Cingle to payable and hilling history when referring to hard disk drive apposits.

### 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		
	Intel VROC HW key Premium U.2		
Interface add on cards/components (optional)			
	WLAN 802.11ac (2x2) PCle x1 FH and BT 4.1 (dedicated regions only, up to BT 4.2 depending on OS version)		
	WLAN 802.11ac (2x2) PCle x1 FH (dedicated regions only)		
	EP X550-T2 2x10GBASE-T		
	PLAN EM X557-T2 2x10GBASE-T		
	PLAN EM 2x10Gb SFP+		
	Gigabit Ethernet PCIe x1		
	eSATA Interface		
	Dual serial card PCle x1		
	Dual 10 Gigabit Ethernet PCle x8		
Base unit	CELSIUS R970 (S26361-K1449-V515) CELSIUS R970power (S26361-K1449-V615)		
Mainboard			
Mainboard type	D3488		
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 MHz		
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.		
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		

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Interfaces			
Audio: in	1		
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			
F 22 22 122 1 components	Optical USB wheel mouse		
Input devices (optional)	Keyboard		
L (-L)	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 PCle SSD modules)		
Slots			
PCI-Express 3.0 x8	2 x (200 mm) Full height (1x PCle 3.0x8 per processor)		
PCI-Express 3.0 x16	4 x (340 mm / 13.39 inch) Full height (2x PCle 3.0x16 pe	er 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		
·	11112111 addate 1 0000, 1 3000 dila 1 1000 30pport 3E1		
Electrical values			
Power consumption note	500 W depending on configuration	650 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	1000 W up to 90% efficiency	1300 W up to 90% efficiency for an input voltage above 115 V	
Power factor correction/active power	active	active	
Power supply output	2 graphics power rails (8pin connector / 18.5A@12V)	1000 W for an input voltage below 115 V 3 graphics power rails (8pin connector / 18.5A@12V)	
Noise for standard configuration (HDD	, ODD)		
Related Processors for noise	Intel® Xeon® Gold processor 6128	Intel® Xeon® Gold processor 6128	
Standard noise emission	8x4 GB, HDD, ODD, Windows	8x4 GB, HDD, ODD, Windows	
	According to ISO 7779:2010, ECMA-74	According to ISO 7779:2010, ECMA-74	

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Noise for standard configuration (HDD, C	ODD)	
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	4.0 B / 24 dB(A) Bystander position	4.0 B / 24 dB(A) Bystander position
Standard noise operation mode: CPU 90% load	4.0 B / 24 dB(A) Bystander position	4.0 B / 24 dB(A) Bystander position
Standard noise operation mode: HDD load	4.0 B / 24 dB(A) Bystander position	4.0 B / 24 dB(A) Bystander position
Standard noise operation mode: Idle mode	4.0 B / 23 dB(A) Bystander position	4.0 B / 23 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	4.0 B / 23 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	CELSIUS R970power
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) Energy Star® 6.1 (dedicated regions, depending on configuration) 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)

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Security		
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	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)	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optiona 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)	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)	Rack mountable (5U)
Spare part availability	5 years	5 years
Packaging information		
Max. quantity / pallet	11	11
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 perfec	http://support.ts.fujitsu.com/warranty	
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/fts/services/support	

# Recommended Accessories

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#### 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™ Click manageability software and a range of connectivity options ideal for medium- and large-sized businesses.

Order Code: \$26361-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

#### 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)

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## 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/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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