

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 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

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



RADEON PRO WX



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 6152 (22C, 2.10 GHz, up to 3.7 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 6148 (20C, 2.40 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 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 4114 (10C, 2.20 GHz, up to 3.0 GHz, 9.6 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 10 Pro for Workstations
Operating system compatible	Windows 7 Professional (available through downgrade rights from Windows 10 Pro) Windows® Server 2016 Linux	Windows 7 Professional (available through downgrade rights from Windows 10 Pro) Windows® Server 2016 Linux
Operating system notes	Certified for Red Hat® Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server 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 .	Certified for Red Hat® Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server 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 .
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 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, 1x Dual Link DVI-D, 4 x DisplayPort
Ultra-high-end 3D: NVIDIA® Quadro® RTX 5000, 16 GB, PCIe x16, 4 x DisplayPort, 1x Virtual Link
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, 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, PCIe x16, 4 x DisplayPort
Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCIe x16, 4x miniDP
Entry 3D: AMD Radeon™ Pro WX 3100, 4 GB, 320 stream processors, PCIe x16, 1x DisplayPort, 2x miniDP
Entry 3D: AMD Radeon™ Pro WX 2100, 2 GB, 320 stream processors, PCIe 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
Others: DP to DVI-D (single link) Adapter Cable

Personal Supercomputing

Coprocessor: NVIDIA® Tesla® M60, 16 GB, 4096 cores, PCIe 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 SATA III, 960 GB High Endurance, 1DWDP, 2.5-inch

SSD SATA III, 480 GB High Endurance, 1DWDP, 2.5-inch

SSD SATA III, 240 GB High Endurance, 1DWDP, 2.5-inch

SSD PCIe, 2048 GB M.2 NVMe Highend module

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 2048 GB M.2 NVMe Highend card

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, 1x 2048 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, 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, 600 GB, 2.5-inch

HDD SATA III, 7,200 rpm, 6,000 GB, 3.5-inch, business critical

HDD SATA III, 7,200 rpm, 4,000 GB, 3.5-inch, business critical

HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch, business critical

HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical

HDD SATA III, 7,200 rpm, 2,000 GB, 2.5-inch, business critical

HDD SATA III, 7,200 rpm, 1,000 GB, 2.5-inch, business critical

HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch

HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch

HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch

Hard disk notes

One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.

24/7 ready (Business Critical HDDs or SAS HDDs or High Endurance SSDs required)

Up to 20 GB of HDD space is reserved for system recovery

SED (Self-Encrypting Drive)

SSD (Solid State Disk)

Drives (optional)	BD Triple Writer SATA ultra slim (tray)	
	DVD-ROM	
	DVD Super Multi	
	DVD Super Multi ultra slim (tray)	
	MultiCard Reader 24in1 USB 2.0 3.5"	
SCSI / SAS Controller	LSI RAID Ctrl SAS 1GB (D3216) RAID 5/6 Ctrl. 12 Gbit/s 8 ports int.	
	LSI RAID Ctrl SAS (D3327) RAID 0/1 Ctrl. 12 Gbit/s 8 ports int.	
	Intel VROC HW key Standard M.2	
	Intel VROC HW key Premium U.2	
Interface add on cards/components (optional)	WLAN 802.11ac (2x2) PCIe x1 FH and BT 4.1 (dedicated regions only, up to BT 4.2 depending on OS version)	
	WLAN 802.11ac (2x2) PCIe x1 FH (dedicated regions only)	
	PLAN EP X550-T2 2x10GBASE-T	
	PLAN EM X557-T2 2x10GBASE-T	
	PLAN EM 2x10Gb SFP+	
	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 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. 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
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

Input devices (optional)	Optical USB wheel mouse Keyboard Optical USB tilt wheel mouse Optical USB wheel mouse
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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
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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
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Noise for standard configuration (HDD, ODD)

Standard noise emission	8x4 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74	8x4 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A-weighted sound power level L _{wad} (in B) / Workplace related A-weighted sound pressure level L _{pAm} (in dB(A))	A-weighted sound power level L _{wad} (in B) / Workplace related A-weighted sound pressure level L _{pAm} (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)	
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.)

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) 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 (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)	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 EMEA, for all other countries depending on local regulations)	
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty	
Product Related Services - the perfect extension		
Recommended Service	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 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:
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

Keyboard KB900



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

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

More information

Fujitsu products, solutions & services

In addition to the FUJITSU Workstation CELSIUS 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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