

Datasheet

FUJITSU Workstation CELSIUS R970

Uncompromising Workstation Performance for Extreme Requirements

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

- Up to 2nd Gen Intel® Xeon® Scalable Processors 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 2TB)

Maximum expandability

Broad selection and configuration options

- Broad choice of professional graphics cards from NVIDIA
- Up to two ultra-high-end graphic cards for simulation or photorealistic renderings

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 of ISV applications and easy integration into existing IT environment
- 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® RTX 4000, RTX 5000, RTX 6000 and RTX 8000 VR-ready graphics cards









Components

Processor	Intel® Xeon® Silver processor 4208 8C, 2.1 GHz, up to 3.2 GHz
	Intel® Xeon® Silver processor 4210 10C, 2.2 GHz, up to 3.2 GHz
	Intel® Xeon® Silver processor 4214 12C, 2.2 GHz, up to 3.2 GHz
	Intel® Xeon® Platinum processor 8260 24C, 2.4 GHz, up to 3.9 GHz
	Intel® Xeon® Gold processor 5218 16C, 2.3 GHz, up to 3.9 GHz
	Intel® Xeon® Gold processor 5222 4C, 3.8 GHz, up to 3.9 GHz
	Intel® Xeon® Gold processor 6226R 16C, 2.9 GHz, up to 3.9 GHz
	Intel® Xeon® Gold processor 6240 18C, 2.6 GHz, up to 3.9 GHz
	Intel® Xeon® Gold processor 6244 8C, 3.6 GHz, up to 4.4 GHz
	Intel vPro® technology
Operating systems	
Operating system pre-installed	Windows 10 Pro for Workstations Windows 10 Pro for Workstations
Operating system notes	Windows 7 Professional (available through Windows® Server 2019
	downgrade rights form Windows 10 Pro) Linux
	Windows® Server 2016
	Linux
Memory modules	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	Ultra-high-end 3D: NVIDIA® Quadro® RTX 8000, 48 GB, PCIe x16, 4 x DisplayPort, 1 x Virtual Link
	Ultra-high-end 3D: NVIDIA® Quadro® RTX 6000, 24 GB, PCIe x16, 4 x DisplayPort, 1 x Virtual Link
	Ultra-high-end 3D: NVIDIA® Quadro® RTX 5000, 16 GB, PCIe x16, 4 x DisplayPort, 1 x Virtual Link
	High-end 3D: NVIDIA® Quadro® RTX 4000, 8 GB, PCIe x16, 3 x DisplayPort, 1 x Virtual Link
	Entry 3D: NVIDIA® Quadro® P400 , 2 GB, PCIe x16, 3 x miniDP
	,
	Others: DP to DVI-D (single link) Adapter Cable
	Others: MiniDP to DP Adapter Cable
Hard disk drive	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, 512 GB M.2 NVMe module, SED
	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 512 GB M.2 NVMe card SSD PCIe, 1x 256 GB M.2 NVMe card
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Hard disk notes	One Gigabyte equals one billion bytes, when referring 24/7 ready (Business Critical HDDs or SAS HDDs or Hiql		
	Up to 20 GB of HDD space is reserved for system recover		
	SED (Self-Encrypting Drive)	,	
	SSD (Solid State Disk)		
Optical drive	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	3 norts int	
SCSI / SAS CONTIONE!	LSI RAID Ctrl SAS (D3327) RAID 0/1 Ctrl. 12 Gbit/s 8 por	•	
	Intel VROC HW key Standard M.2		
	Flash Backup Unit (FBU + TFM) For RAID controller D3216		
Interface add on cards/components	eSATA Interface		
(optional)	PLAN EM X557-T2 2x10GBASE-T		
	PLAN EM 2x10Gb SFP+		
	Gigabit Ethernet PCle x1		
	Dual 10 Gigabit Ethernet PCIe x8		
	Intel 2x1Gb Ethernet Adapter I350-T2		
	PLAN EP X550-T2 2x10GBASE-T		
	WLAN 802.11ac (2x2) PCle x1 and BT 5, SRD 5.8GHz (d		
	WLAN 802.11ac (2x2) PCle x1, SRD 5.8GHz (dedicated	regions only)	
_	Dual serial card PCle x1		
Base unit	CELSIUS R970	CELSIUS R970 Power	
Mainboard			
Mainboard type	D3488-A1X	D3488-A2X	
Formfactor	Proprietary		
Chipset	Intel® C624		
Processor socket	Socket P		
Processor quantity maximum	2		
Support capacity RAM (max.)	1,024 GB		
Memory slots	16 (8 per processor) DIMM (DDR4) ECC 2,666 MT/s	2,933 MT/s	
Memory frequency	6 memory channels, thereof 2 channels supporting 2	6 memory channels, thereof 2 channels supporting 2	
Memory notes	DIMMs per channel. For optimized 6 channel performance,	DIMMs per channel. For optimized 6 channel performance,	
	a minimum of 6 memory modules have to be ordered and	a minimum of 6 memory modules have to be ordered	
	the capacity per channel has to be the same.	and the capacity per channel has to be the same.	
	DDR4 2,666MHz may be clocked down to 2,400 or	DDR4	
	2,133	2,933MHz may be clocked down to 2,666 or 2,400 or	
	depending on the processor.	2,133	
	Supports up to 1TB of main memory (offered on	depending on the processor.	
	request).	Supports up to 2TB of main memory (offered on	
	This requires dual CPU usage with selected CPUs and	request).	
	128GB DDR4 memory modules.	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		
	High Definition Audio		
Audio features			
I/O controller on board	10		
I/O controller on board Serial ATA total	10		
I/O controller on board Serial ATA total Thereof SATA III	10		
I/O controller on board Serial ATA total			



	RAID 0/1/5/10		
CELSIUS R970	0, 4, 6, 40		
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 Ty	pe-C (Gen2) via add on card and front adapter bay	
USB rear	6	1 ,	
USB internal	3, thereof 1 type A		
Ethernet (RJ-45)	2		
eSATA			
	1 (optional)		
Interface Module notes	Anytime USB charge functionality		
Input devices (optional)	Keyboard		
	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 SSI	O or	
·	Up to 4x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSI	O or	
	Up to 2x 2.5-inch and 2x 3.5-inch HDDs (cold plug) and	d 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 PCle 3.0x8 per processor)		
PCI-Express 3.0 x16	4 x (340 mm / 13.39 inch) Full height (2x PCle 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 2r	nd CPU)	
Graphics brand name			
Graphics notes		NVIDIA® Quadro® RTX 5000, RTX 8000 support NVLink	
Electrical values			
Power consumptions 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)		
Noise for standard configuration (HDD, ODD)	<u> </u>		
Related Processors for noise	Intel® Xeon® Gold processor 6128	Intel® Xeon® Gold processor 6240	
Standard noise emission	8x4 GB, HDD, ODD, Windows	8x4 GB, HDD, ODD, Windows	
	According to ISO9296 (LpAm at bystander position)	According to ISO9296 (LpAm at bystander position)	
Standard noise notes / description	A-weighted sound power level Lwad (in B) /	A-weighted sound power level Lwad (in B) /	
·	Workplace related A-weighted sound pressure level LpAm (in dB(A))	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	4.7 B / 30 dB(A) Bystander position	
Noise for standard configuration (HDD, ODD)			
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	
	4.0 0 / 24 ab(n) bystander position	ט עס אים פארט פארטוופין אינוווויין אינווויין אינוויין אינוויין אינווויין אינווויין אינווויין אינווויין אינווויי	

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Fujitsu recommends Windows 10 Pro		10)1130
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 model: 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 configu	ration
Operating ambient temperature	10 – 35 °C (50 – 95 °F)	
Operating relative humidity	5 – 85 % (relative humidity)	
Compliance		
Product	CELSIUS R970	
Model	ETNA-L	
Global	RoHS (EU & China)	
diobal	Microsoft Operating Systems (HCT / HCL entry WHQL)	1
	WEEE (Waste electrical and electronic equipm	ent)
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 solu McAfee® LiveSafe™ (provides award-winning a preinstalled)	ition) antivirus protection for your PC and much more. 30 days trial
	Microsoft Office (1 month trial for new Microso	oft® Office 365 customers. Buy Microsoft Office.)
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software fo	or Blu-ray Disc™)
	CyberLink PowerDVD DVD (playback software Nero Essentials XL	
	Microsoft® Office Professional 2019	
	Microsoft® Office Home and Business 2019	
	(A Microsoft Account is required to activate ea the region in which it was acquired.)	ch copy of these products. For purchase and activation only in
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 read (optional)	er
	Access protection via internal SmartCard reade (optional)	21
	Workplace Protect (secure authentication solu	ition)
Workplace Embedded Tools	Auto BIOS Update via Fujitsu Server	
•	Auto BIOS Update via customer server (option	al)
	Easy PC Protection (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
Support 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	https://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
Recommended Service	9x5, Onsite Response Time: Next Business day
Spare Parts availability	5 years after end of product life
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FUJITSU

More information

Fujitsu OPTIMIZATION solutions

In addition to Fujitsu Desktop CELSIUS R970, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fuiitsu 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

https://www.fujitsu.com/hk/products/computing/pc/ **Software**

www.fujitsu.com/software/

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More information

To learn more about Fujitsu Desktop CELSIUS R970, please contact your Fujitsu sales representative, Fujitsu Business partner, or visit our website.

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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¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. ² GB = 1 billion bytes. TB = 1 trillion bytes

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