Fujitsu recommends Windows® 7.



Data Sheet Fujitsu CELSIUS R920 Workstation

Datasheet for Red Hat certification

Uncompromising Workstation Performance for Extreme Requirements

Fujitsu's most performing workstation the CELSIUS R920 achieving first-class benchmark results is designed to surpass all your expectations. This reliable, high-end dual processor workstation is individually configurable for the most power hungry, 24/7 operating environments. Best-in-class noise emissions of just 21 dB, and comprehensive ISV certifications that ensure smooth application operation, enhance your productivity. The convenient cold plug access at front simplifies subsequent expansion.

Performance

Higher productivity

 High performance multi-core processors, next generation graphics subsystems, quad-channel memory technology and high-speed hard disk drives

Ergonomics

Noise-reduced system engineered in Germany

Optimized thermal management, low-noise chassis and silent fans

Reliability

System stability for the complete lifecycle

■ High product standards thanks to top-quality components and comprehensive testing in certified in-house laboratories for 24/7 operation

Certification of workstation applications

Stability, compatibility and performance for the main workstation applications

■ Comprehensive support for ISV applications and ease of integration into existing IT networks

Expandability

Excellent expandability for future demands

■ Increased memory capacities of up to 512 GB





























Components

Drives	up to 8x 2.5" HDDs or up to 4x 3.5" HDDs or	
	up to 2x 2.5" and 2x 3.5" HDDs	
Processor	Intel® Xeon® processor E5-2690 (8 Cores / 16 Threads, 2.90 GHz, 20 MB, 8.0 GT/s)	
Tocessor	Intel® Xeon® processor E5-2687W (8 Cores / 16 Threads, 3.10 GHz, 20 MB, 8.0 GT/s)	
	Intel® Xeon® processor E5-2680 (8 Cores / 16 Threads, 2.70 GHz, 20 MB, 8.0 GT/s)	
	Intel® Xeon® processor E5-2670 (8 Cores / 16 Threads, 2.70 GHz, 20 MB, 8.0 GT/s)	
	Intel® Xeon® processor E5-2667 (6 Cores / 12 Threads, 2.90 GHz, 15 MB, 8.0 GT/s)	
	Intel® Xeon® processor E5-2665 (8 Cores / 16 Threads, 2.40 GHz, 20 MB, 8.0 GT/s)	
	Intel® Xeon® processor E5-2660 (8 Cores / 16 Threads, 2.20 GHz, 20 MB, 8.0 GT/s)	
	Intel® Xeon® processor E5-2650L (8 Cores / 16 Threads, 1.80 GHz, 20 MB, 7.2 GT/s)	
	Intel® Xeon® processor E5-2650 (8 Cores / 16 Threads, 2.00 GHz, 20 MB, 8.0 GT/s)	
	Intel® Xeon® processor E5-2643 (4 Cores / 8 Threads, 3.30 GHz, 10 MB, 8.0 GT/s)	
	Intel® Xeon® processor E5-2640 (6 Cores / 12 Threads, 2.50 GHz, 15 MB, 7.2 GT/s)	
	Intel® Xeon® processor E5-2637 (2 Cores / 4 Threads, 3.00 GHz, 5 MB, 8.0 GT/s)	
	Intel® Xeon® processor E5-2630L (6 Cores / 12 Threads, 2.00 GHz, 15 MB, 6.4 GT/s)	
	Intel® Xeon® processor E5-2630 (6 Cores / 12 Threads, 2.30 GHz, 15 MB, 7.2 GT/s)	
	Intel® Xeon® processor E5-2620 (6 Cores / 12 Threads, 2.00 GHz, 15 MB, 7.2 GT/s)	
	Intel® Xeon® processor E5-2609 (4 Cores / 8 Threads, 2.40 GHz, 10 MB, 6.4 GT/s)	
	Intel® Xeon® processor E5-2603 (4 Cores / 8 Threads, 1.80 GHz, 10 MB, 6.4 GT/s)	
perating systems		
perating system	Windows® 7 Professional 64-bit	
Operating system compatible	Windows® XP Professional x64 Edition	
	Windows® XP Professional	
	Linux	
Operating system notes	Red Hat® certification pending	
	Novell® certification pending	
	For some configurations third party drivers are currently not available or configuration restrictions may apply.	
Memory modules	2 GB (1 module(s) 2 GB) DDR3, ECC, 1600 MHz, PC3-12800	
	4 GB (1 module(s) 4 GB) DDR3, ECC, 1600 MHz, PC3-12800	
	4 GB (1 module(s) 4 GB) DDR3, registered, ECC, 1600 MHz, PC3-12800	
	8 GB (1 module(s) 8 GB) DDR3, registered, ECC, 1600 MHz, PC3-12800	
	16 GB (1 module(s) 16 GB) DDR3, registered, ECC, 1600 MHz, PC3-12800	
Graphics add on cards (optional)	Remote Graphics: CELSIUS RemoteAccess Card, PCle x1, 2x DVI-I, PCoIP	
	GPU computing card: NVIDIA® Tesla™ C2075, 6 GB, 448 cores, PCIe x16, 1x DVI-I	
	Ultra-high-end 3D: NVIDIA® Quadro® 6000, 6 GB, 448 cores, PCIe x16, 1x DVI-I, 2x DisplayPort, 2x DVI/VGA	
	Ultra-high-end 3D: NVIDIA® Quadro® 5000, 2.5 GB, 352 cores, PCle x16, Dual Link DVI-I, 2x DisplayPort, DVI, VGA	
	High-end 3D: NVIDIA® Quadro® 4000, 2 GB, 256 cores, PCIe x16, Dual Link DVI-I, 2x DisplayPort	
	High-end 3D: AMD FirePro™ V7900, 2 GB, 1140 stream processors, PCle x16, 4 x DisplayPort	
	Midrange 3D: NVIDIA® Quadro® 2000D, 1 GB, 192 cores, PCle x16, 2x Dual Link DVI-I	
	Midrange 3D: NVIDIA® Quadro® 2000, 1 GB, 192 cores, PCIe x16, Dual Link DVI-I, 2x DisplayPort	
	Midrange 3D: AMD FirePro™ V5900, 2 GB, 800 stream processors, PCle x16, Dual Link DVI-I, 2x DisplayPort	
	Entry 3D: NVIDIA® Quadro® 600, 1 GB, 96 cores, PCle x16, Dual Link DVI-I, DisplayPort	
	Entry 3D: NVIDIA® Quadro® 400 , 512 MB, 192 cores, PCIe x16, 1x DVI-I, DisplayPort	
	Entry 3D: AMD FirePro [™] V4900, 1 GB, 480 stream processors, PCle x16, Dual Link DVI-I, 2x DisplayPort	
	Entry 3D: AMD FirePro [™] V3900, 1 GB, 480 stream processors, PCle x16, Dual Link DVI-I, DisplayPort	
	Professional 2D: NVIDIA® Quadro® NVS 450, 512 MB, 2 x 8 cores, PCIe x16, 4 x DisplayPort	

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Hard disk drives (internal)	SSD SATA, 256 GB, 2.5-inch, FDE		
	SSD SATA, 128 GB, 2.5-inch, FDE		
	HDD SATA III, 10000 rpm, 600 GB, 3.5-inch HDD SATA III, 10000 rpm, 300 GB, 3.5-inch HDD SATA III, 7200 rpm, 2000 GB, 3.5-inch HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch, business critical HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch		
	HDD SATA III, 7200 rpm, 500 GB, 3.5-inch		
	HDD SATA III, 7200 rpm, 250 GB, 3.5-inch		
	HDD SATA II, 7200 rpm, 2000 GB, 3.5-inch, business critical		
	HDD SAS, 15000 rpm, 300 GB, 2.5-inch		
	HDD SAS, 10000 rpm, 600 GB, 2.5-inch		
	HDD SAS, 10000 rpm, 450 GB, 2.5-inch		
	HDD SAS, 10000 rpm, 300 GB, 2.5-inch		
Hard disk notes	*Disk imaging software of the customer must be 4k sector size / advanced format ready One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.		
Drives (optional)	Blu-ray Disc™ Triple Writer		
	DVD-ROM		
	DVD Super Multi		
	MCR 24in1 & USB 3.0 front con., 3.5"		
	MultiCard Reader 24in1 USB 2.0 3.5"		
nterface add on cards/components (optional)			
	WLAN III, 802.11g/Draft-n (Windows only)		
	USB 3.0 PCIe x1		
	InfiniBand HCA 40Gb/s, 2-Port, QDR		
	InfiniBand HCA 40Gb/s, 1-Port, QDR		
	Gigabit Ethernet PCle x1		
	eSATA Interface		
	Dual serial card PCIe x1, powered		
	Dual serial card PCIe x1		
	Dual 1 Gigabit Ethernet PCIe x4		
	Dual 10 Gigabit Ethernet PCIe x8		
nterface add on/component note	1x eSATA interface already on board		
Base unit	CELSIUS R920 CELSIUS R920 power		
Mainboard	· · · · · · · · · · · · · · · · · · ·		
Mainboard type	D3118		
Formfactor	proprietary		
Chipset	Intel® C602		
Processor socket	Socket R		
Processor quantity maximum	2		
Memory slots	16 (8 per processor) DIMM (DDR3) registered		
Supported capacity RAM (max.)	512 GB		
Memory notes	In configurations with 4 GB and more the visible memory may be reduced to approximately 3.5 GB or less (for 32-bit operating systems) and configurations with 8 GB the visible memory may be reduced to approximately 7.5 GB or less		
IAN	(depending on system configuration).		
LAN Audio codec			

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Secal Alf Atolal			
thereof SATAII	I/O controller on board		
Interest SATA	Serial ATA total		
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Audio: in (rear)	•		
Nucleic in (rear) 1 1 1 1 1 1 1 1 1	SAS RAID support	0, 1, 10	
Audio: out (lear) 1 Internal packers 1 ISB 2.0 total 1 ISB 3.0 total 2 ISB front 4 (2x USB 3.0) ISB rare 6 ISB internal 3, thereof 1 type A ISB front 9 ISB rare 6 ISB internal 3, thereof 1 type A ISB rare 7 ISB rare 8 ISB rare 8 ISB rare 8 ISB rare 9 IS	Interfaces		
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Audic: out 1 1 1 1 1 1 1 1 1	Audio: out (rear)	1	
Internal speakers	Audio: in	1	
	Audio: out	1	
158 150	Internal speakers	1	
158 front	USB 2.0 total	11	
	USB 3.0 total	2	
	USB front	4 (2x USB 3.0)	
Serial (RS-232) 1 (internal 9 pin) Mouse / Keyboard (PS/2) 1 / 1 Ethernet (RJ-45) 2 SEXTA 1 Interface Module notes Anytime USB charge functionality Drive bays Jest Control of the Sey Stotal 2.5-inch bays 8 3.5-inch internal bays 4 3.5-inch external bays 2 5.5-inch external bays 2 SCS-Inch external bays 2 PCH-Express 3.0 x4 (mech. x16) 1 x (312 mm) Full height PCH-Express 3.0 x4 (mech. x8) 1 x (312 mm) Full height (2x PCle 3.0x16 per processor) PCH-Express 3.0 x4 (mech. x8) 1 x (312 mm) Full height (2x PCle 3.0x16 per processor) PCH-Express 3.0 x4 (mech. x8) 1 x (312 mm) Full height (2x PCle 3.0x16 per processor) PCH-Express 3.0 x4 (mech. x8) 1 x (312 mm) Full height (2x PCle 3.0x16 per processor) PCH-Express 3.0 x4 (mech. x8) 1 x (312 mm) Full height (2x PCle 3.0x16 per processor) PCH-Express 3.0 x4 (mech. x8) 1 x (312 mm) Full height (2x PCle 3.0x16 per processor) PCH-Express 3.0 x4 (mech. x8) 1 x (312 mm) Full height (2x PCle 3.0x16 per processor) PCH-Express 3.0 x4 (mech. x8) 1 x (USB rear	6	
Mouse / Keyboard (PS/2)	USB internal	·	
Ethernet (RJ-45) 2 1 1 1 1 1 1 1 1 1	Serial (RS-232)	1 (internal 9 pin)	
Interface Module notes	Mouse / Keyboard (PS/2)	1/1	
Drive bays 12 2.5-inch bays 3 3.5-inch internal bays 3.5-inch internal bays 3.5-inch internal bays 3.5-inch external bays 3.5-in	Ethernet (RJ-45)	2	
Drive bays Drive bays total 2.5-inch bays 8 8.5-inch internal bays 4 3.5-inch external bays 2 5.5-inch external bays 3 5 5 5 5 5 5 5 6 6 7 6 7 7 7 7 7 7 7 7 7	eSATA	1	
	Interface Module notes	Anytime USB charge functionality	
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Solots S	3.5-inch external bays	2	
PCI - Express 3.0 x4 (mech. x16)	5.25-inch external bays	2	
PCI - Express 3.0 x 16	Slots		
PCI - Express 2.0 x4 (mech. x8)	PCI-Express 3.0 x4 (mech. x16)	1 x (312 mm) Full height	
PCL (32-bit / 33 MHz) 1 x (312 mm /) Full height Electrical values Power consumption note 400 W depending on configuration 550 W depending on configuration 87	PCI-Express 3.0 x16	4 x (312 mm /) Full height (2x PCle 3.0x16 per processor	
Electrical values Power consumption note 400 W depending on configuration 550 W depending on configuration Rated voltage range 100 V - 240 V 100 V - 240 V Rated frequency range 50 Hz - 60 Hz Deparating voltage range 100 V - 240 V 100 V - 240 V Deparating voltage range 50 Hz - 60 Hz Deparating line frequency range 50 Hz - 60 Hz Max. output of single power supply 800 W up to 90% efficiency 1100 W up to 90% efficiency Noise emission According to ISO9296 (LpAm at bystander position) According to ISO9296 (LpAm at bystander position) Noise Operation mode 4: High load 23 dB(A) 24 dB(A) Noise Operation mode 5: Office 21 dB(A) 22 dB(A) applications Idle mode 21 dB(A) 22 dB(A) Noise notes / description depending on configuration depending on configuration Dimensions / Weight / Environmental Dimensions / Weight / Environmental Dimensions (W x D x H) 186 x 618 x 430 mm	PCI-Express 2.0 x4 (mech. x8)	1 x (140 mm) Full height	
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Operating voltage range 100 V - 240 V Operating line frequency range 50 Hz - 60 Hz 50 Hz - 60 Hz 1100 W up to 90% efficiency Noise emission According to ISO9296 (LpAm at bystander position) Noise Operation mode 4: High load 23 dB(A) Noise Operation mode 5: Office 21 dB(A) 22 dB(A) According to ISO9296 (LpAm at bystander position) 24 dB(A) 22 dB(A) According to ISO9296 (LpAm at bystander position) According to ISO9296 (LpAm at bystander position) 24 dB(A) 22 dB(A) According to ISO9296 (LpAm at bystander position) According to ISO9296 (LpAm at bystander position) 24 dB(A) 22 dB(A) According to ISO9296 (LpAm at bystander position) According to ISO9296 (LpAm at bystander position) 24 dB(A) 22 dB(A) According to ISO9296 (LpAm at bystander position) According to ISO9296 (LpAm at bystander	Rated voltage range	100 V - 240 V	100 V - 240 V
Operating line frequency range 50 Hz - 60 Hz 50 Hz - 60 Hz Max. output of single power supply 800 W up to 90% efficiency 1100 W up to 90% efficiency Noise emission According to ISO9296 (LpAm at bystander position) According to ISO9296 (LpAm at bystander position) Noise Operation mode 4: High load 23 dB(A) 24 dB(A) Noise Operation mode 5: Office 21 dB(A) 22 dB(A) applications Idle mode 21 dB(A) 22 dB(A) Noise notes / description depending on configuration depending on configuration Dimensions / Weight / Environmental Dimensions (W x D x H) 186 x 618 x 430 mm	Rated frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
Max. output of single power supply Noise emission According to ISO9296 (LpAm at bystander position) Noise Operation mode 4: High load 23 dB(A) Noise Operation mode 5: Office applications Idle mode 21 dB(A) 22 dB(A) 22 dB(A) According to ISO9296 (LpAm at bystander position) 24 dB(A) 22 dB(A) 22 dB(A) According to ISO9296 (LpAm at bystander position) 24 dB(A) 22 dB(A) Applications Idle mode 21 dB(A) According to ISO9296 (LpAm at bystander position) According to ISO9296 (LpAm at bystander position) 24 dB(A) 22 dB(A) Applications According to ISO9296 (LpAm at bystander position)	Operating voltage range	100 V - 240 V	100 V - 240 V
Noise emission According to ISO9296 (LpAm at bystander position) Noise Operation mode 4: High load 23 dB(A) Noise Operation mode 5: Office 21 dB(A) 22 dB(A) 22 dB(A) Noise notes / description Dimensions / Weight / Environmental Dimensions (W x D x H) According to ISO9296 (LpAm at bystander position) According to ISO9296 (LpAm at bystander position) 24 dB(A) 22 dB(A) 42 dB(A) 42 dB(A) 42 dB(A) 42 dB(A) 42 dB(A) 43 depending on configuration	Operating line frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
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applications Idle mode 21 dB(A) 22 dB(A) Noise notes / description depending on configuration depending on configuration Dimensions / Weight / Environmental Dimensions (W x D x H) 186 x 618 x 430 mm	Noise Operation mode 4: High load	23 dB(A)	24 dB(A)
Idle mode 21 dB(A) 22 dB(A) Noise notes / description depending on configuration depending on configuration Dimensions / Weight / Environmental Dimensions (W x D x H) 186 x 618 x 430 mm	Noise Operation mode 5: Office	21 dB(A)	22 dB(A)
Noise notes / description depending on configuration depending on configuration Dimensions / Weight / Environmental Dimensions (W x D x H) 186 x 618 x 430 mm	applications		
Dimensions / Weight / Environmental Dimensions (W x D x H) 186 x 618 x 430 mm			• •
Dimensions (W x D x H) 186 x 618 x 430 mm	Noise notes / description	depending on configuration	depending on configuration
	Dimensions / Weight / Environmental		
	Dimensions (W x D x H)		
	Operating position		
Weight 20 kg	Weight	20 kg	

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Dimensions / Weight / Environmenta		
Weight notes	Actual weight may vary depending on configuration	
Operating ambient temperature	10 - 35℃	
Operating relative humidity	5 - 85 % (relative humidity)	
Compliance		
Product	CELSIUS R920 CELSIUS R920 Power	
Model	ETNA_L-D3118	
Germany	GS .	
	depending on configuration	
USA/Canada	cCSAus	
	FCC Class B	
Global	FCC Class A (in combination with InfiniBand add on card)	
GIODAI	RoHS (EU & China) Medical EMC standard IEC60601-1-2 in combination with medical kit	
	Microsoft Operating Systems (HCT / HCL entry / WHQL)	
	ENERGY STAR® 5.0	
	WEEE (Waste electrical and electronic equipment)	
	EPEAT® in progress (dedicated regions)	
Japan	VCCI	
Russia	GOST	
South Korea	KCC	
China	CCC (planned)	
Taiwan	BSMI	
Saudi Arabia	SASO (planned)	
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/	
Security		
System protection	Kensington Lock support	
	Eye for padlock	
	Intrusion switch	
	Optional: Integrated cabinet lock	
Audit proof protection	Write protect option for the Flash EPROM	
	Boot protection for floppy disk / CD drive and write protection for floppy disk drive	
	Dynamic USB security for full hardware USB protection	
	Control of all USB interfaces	
	Trusted platform module (TPM 1.2) EraseDisk	
Access protection	User and supervisor BIOS password	
	Optional: Access protection via external SmartCard reader	
	Optional: Access protection via internal SmartCard reader	
Additional Software		
Additional software (preinstalled)	Norton Internet Security (incl. Firewall) 60 days version	
ν,,	Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®. Buy Office 2010 to use the full-featured software.	
Additional software (optional)	CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not	
	supported under Windows XP if the system runs on Intel onboard graphics)	
	Drivers & Utilities DVD (DUDVD) Windows® 7 and Windows® XP	
	Nero Essentials (burning software)	
Manageability		
Manageability technology	DeskUpdate Driver management	
	iAMT Intel® Active Manageability Technology v7.1 (not activated, not set up)	
Manageability software	DeskView Client	
	DeskView Instant BIOS Management	
	DeskView Integration for Symantec Management Platform	

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Manageability	
DeskView components	Inventory Management
	BIOS Management
	Driver Management
	Security Management
	Alarm Management
Supported standards	WMI
	BootP (made4you)
	PXE
	WoL (Wake on LAN)
Manageability link	http://ts.fujitsu.com/manageability
Input device / components	
	Optical USB wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse
	Space Explorer USB
	Keyboard
Warranty	
Standard Warranty	3 years (depending on country)
Service level	On-site Service (depending on country)
Maintenance and Support Services	
Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	http://www.fujitsu.com/fts/services/support

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More information

Fujitsu platform solutions

In addition to Fujitsu CELSIUS R920, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu CELSIUS R920, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

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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 resolve issues of environmental energy efficiency through IT.

Please find further information at http://www.fujitsu.com/global/about/environment/



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