Fujitsu recommends Windows® 7.



# Data Sheet Fujitsu CELSIUS R920 Workstation

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





























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# 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 )
	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, 2.60 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)
Operating systems	
Operating system	Genuine Windows® 7 Professional 64-bit
Operating system compatible	Genuine Windows® XP Professional x64 Edition
1 31 ··· r	Genuine 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, PCIe 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, PCle 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, PCIe 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: AMD FirePro <sup>™</sup> 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, PCle x16, 4 x DisplayPort
	Professional 2D: NVIDIA® Quadro® NVS 300, 512 MB, 16 cores, PCIe Gen2 x16, 2x DVI/VGA

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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, business critical		
	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		
SAFA RAID support		2	
SAS CanD support		<u>·</u>	
SAS RAID support   0, 1, 10   1   1   1   1   1   1   1   1   1			
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		
Audio: in         1           Undio: out         1           Undio: out         1           USB 2.0 total         11           USB 3.0 total         2           USB 3.0 total         4 (2x USB 3.0)           USB 18 more         4 (2x USB 3.0)           USB 18 more         6           USB 18 more         7           USB 18 more         7           USB 18 more         7           USB 18 more         7           USB 28 more         8           US-5 more bays total         1           12 more bays total         1           25 - inch external bays         2           25-inch external bays         4           25-inch external bays         4           26-	Audio: in (rear)	1	
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 x (internal bays 3 5 x (internal bays 4 5 x (internal bays 5	eSATA	1	
	Interface Module notes	Anytime USB charge functionality	
2.5-inch bays       8         3.5-inch internal bays       2         5.5-inch external bays       2         5.25-inch external bays       2         SPOE         SPOE         PCI-Express 3.0 x4 (mech. x16)       1 x (312 mm / ) Full height (2x PCIe 3.0x16 per processor)         PCI-Express 2.0 x4 (mech. x8)       1 x (140 mm) Full height (2x PCIe 3.0x16 per processor)         PCI (32-bit / 33 MHz)       1 x (312 mm / ) Full height         Express 2.0 x4 (mech. x8)       1 x (312 mm / ) Full height         PCI (32-bit / 33 MHz)       1 x (312 mm / ) Full height         EXPRESS 2.0 x4 (mech. x8)       1 x (312 mm / ) Full height         PCI (32-bit / 33 MHz)       1 x (312 mm / ) Full height         PCI (32-bit / 33 MHz)       1 x (312 mm / ) Full height         PCI (32-bit / 33 MHz)       1 x (312 mm / ) Full height         PCI (32-bit / 33 MHz)       1 x (312 mm / ) Full height         PCI (32-bit / 33 MHz)       1 x (312 mm / ) Full height         PCI (23-bit / 33 MHz)       1 x (312 mm / ) Full height         PCI (23-bit / 33 MHz)       1 x (312 mm / ) Full height         PCI (23-bit / 34 Mz)       1 x (312 mm / ) Full height <tr< th=""><th>Drive bays</th><th></th><th></th></tr<>	Drive bays		
3.5-inch internal bays 2 3.5-inch external bays 2 5.52-5-inch external bays 2 5.52-5-inch external bays 2 5.50-tots  PCI-Express 3.0 x4 (mech. x16) 1 x (312 mm) Full height (2x PCIe 3.0x16 per processor) PCI-Express 3.0 x16 4 x (312 mm / ) Full height (2x PCIe 3.0x16 per processor) PCI-Express 3.0 x4 (mech. x8) 1 x (140 mm) Full height (2x PCIe 3.0x16 per processor) PCI-Express 2.0 x4 (mech. x8) 1 x (140 mm) Full height PCI (32-bit / 33 MHz) 1 x (312 mm / ) Full height PCI (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 Rated voltage range 100 V - 240 V 100 V - 240 V  Rated frequency range 50 Hz - 60 Hz 50 Hz 60 Hz  Deperating voltage range 100 V - 240 V 100 V - 240 V  Deperating line frequency range 50 Hz - 60 Hz 50 Hz - 60 Hz  Wax. output of single power supply 800 W up to 90% efficiency 1100 W up to 90% efficiency  Noise objeration mode 4: High load 23 dB(A) 24 dB(A)  Noise Operation mode 4: High load 23 dB(A) 22 dB(A)  Noise Operation mode 4: High load 21 dB(A) 22 dB(A)  Noise notes / description depending on configuration Politicans (W x D x H) 186 x 618 x 430 mm	Drive bays total	12	
Spinch external bays   2   2   5.25-inch external bays   3   1 × (312 mm) Full height   5.20 FCI-Express 3.0 x4 (mech. x16)   1 × (312 mm) Full height   5.20 FCI-Express 3.0 x16   4 × (312 mm) Full height   5.20 FCI-Express 2.0 x4 (mech. x8)   1 × (140 mm) Full height   5.20 FCI-Express 2.0 x4 (mech. x8)   1 × (312 mm) Full height   5.20 FCI-Express 2.0 x4	2.5-inch bays	8	
Scient   S	3.5-inch internal bays	4	
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	
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 Operating voltage range 100 V - 240 V 100 V - 240 V  Operating line frequency range 50 Hz - 60 Hz  Operating 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 (W x D x H) 186 x 618 x 430 mm	PCI (32-bit / 33 MHz)	1 x (312 mm / ) Full height	
Rated voltage range 100 V - 240 V 50 Hz - 60 Hz 50 Hz - 60 Hz 50 Hz - 60 Hz 100 V - 240 V 1100 W up to 90% efficiency 1100 W up to 90% efficie	Electrical values		
Rated frequency range 50 Hz - 60 Hz  Operating voltage range 100 V - 240 V  Operating 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 (W x D x H) 186 x 618 x 430 mm	Power consumption note	400 W depending on configuration	550 W depending on configuration
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)  According	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
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	Max. output of single power supply	800 W up to 90% efficiency	1100 W up to 90% efficiency
Noise Operation mode 5: Office 21 dB(A) 22 dB(A) 21 dB(A) 22 dB(A) 21 dB(A) 22 dB(A) 23 depending on configuration depending on configuration 25 depending on configuration 26 depending on configuration 27 depending on configuration 28 depending on configuration 29 depending on configuration 29 depending on configuration 20 depending 20 de	Noise emission		According to ISO9296 (LpAm at bystander position)
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°C		
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 FCC Class A (in combination with InfiniBand add on card)		
Global	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 (planned)		
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 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 Service		
Recommended Service	5x9, Response Time: Next Business Day	
Spare Parts availability	5 years	
Service Weblink	http://ts.fujitsu.com/Supportservice	

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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.

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 resolve issues of environmental energy efficiency through IT.

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



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