Fujitsu recommends Windows 8 Pro.



Data Sheet Fujitsu CELSIUS R930 Workstation

Uncompromising Workstation Performance for Extreme Demands

Fujitsu's most performing workstation the CELSIUS R930 is designed to surpass all your expectations. This high-end dual processor workstation is individually configurable for the most power hungry 24/7 operating environments. Incorporating latest NVIDIA GRID™ graphics virtualization cards or Intel® Xeon Phi™ coprocessor cards, the CELSIUS R930 is well prepared for workstation virtualization and High Performance Computing. Comprehensive ISV certifications ensure smooth application operation.

Performance

Higher productivity

■ Future Intel® Xeon® processors, high performing graphics subsystems, quad-channel memory technology and high-speed hard disk drives

Workstation virtualization in the datacenter

Ideal for workstation consolidation due to multiple users per workstation, increased data security and protection against theft or damage

■ Rack-mountable and incorporating latest NVIDIA GRID™ or Intel® Xeon Phi™ graphics or compute cards

Reliable and Ergonomic

Noise-reduced system engineered in Germany and System stability for the complete lifecycle and 24/7 operation

Optimized thermal management, high product standards thanks to top-quality components and comprehensive testing in certified in-house laboratories

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, Up to three ultra-high-end or four mid-range graphics and eight hard disk drives













Components

Processor	Intel® Xeon® processor E5-2697v2 (12 cores, 2.70 GHz, 30 MB)
	Intel® Xeon® processor E5-2695v2 (12 cores, 2.40 GHz, 30 MB)
	Intel® Xeon® processor E5-2690v2 (10 Cores, 3.00 GHz, 25 MB)
	Intel® Xeon® processor E5-2687Wv2 (8 Cores, 3.40 GHz, 20 MB)
	Intel® Xeon® processor E5-2680v2 (10 Cores, 2.80 GHz, 25 MB)
	Intel® Xeon® processor E5-2670v2 (10 Cores, 2.50 GHz, 25 MB)
	Intel® Xeon® processor E5-2667v2 (8 Cores, 3.30 GHz, 25 MB)
	Intel® Xeon® processor E5-2660v2 (10 Cores, 2.20 GHz, 25 MB)
	Intel® Xeon® processor E5-2650v2 (8 Cores, 2.60 GHz, 20 MB)
	Intel® Xeon® processor E5-2650Lv2 (10 Cores, 1.70 GHz, 25 MB)
	Intel® Xeon® processor E5-2643v2 (6 Cores, 3.50 GHz, 25 MB)
	Intel® Xeon® processor E5-2640v2 (8 Cores, 2.00 GHz, 20 MB)
	Intel® Xeon® processor E5-2637v2 (4 Cores, 3.50 GHz, 15 MB)
	Intel® Xeon® processor E5-2630v2 (6 Cores, 2.60 GHz, 15 MB)
	Intel® Xeon® processor E5-2630Lv2 (6 Cores, 2.40 GHz, 15 MB)
	Intel® Xeon® processor E5-2620v2 (6 Cores, 2.10 GHz, 15 MB)
	Intel® Xeon® processor E5-2609v2 (4 Cores, 2.50 GHz, 10 MB)
	Intel® Xeon® processor E5-2603v2 (4 Cores, 1.80 GHz, 10 MB)
	2nd Intel® Xeon® processor E5-2640v2 (8 Cores, 2.00 GHz, 20 MB)
	Intel® Xeon® processor E5 family featuring Intel® vPro™ Technology
Operating systems	
)perating system	Windows 8 Pro 64-bit
	Windows® 7 Professional 64-bit
Operating system compatible	Windows® Server 2008 R2
	Windows® 7 Professional 32-bit
	Windows® XP Professional x64 Edition
Na a a blanca a a a bara	Linux
Operating system notes	Certified for Red Hat Enterprise Linux Certified for SUSE Enterprise Desktop
	Certified for SUSE Enterprise Server
	For some configurations third party drivers are currently not available or configuration restrictions may apply.
	SCU ports are not supportet for Windows® XP 32bit (restriction by Intel®). Therefore an additional storage controller
	(D2607 or D2616) is necessary.
	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via
	http://support.ts.fujitsu.com
Memory modules	4 GB (1 module(s) 4 GB) DDR3, ECC, 1866 MHz, PC3-14900
	8 GB (1 module(s) 8 GB) DDR3, registered, ECC, 1866 MHz, PC3-14900
	16 GB (1 module(s) 16 GB) DDR3, registered, ECC, 1866 MHz, PC3-14900
	32 GB (1 module(s) 32 GB) DDR3, registered, ECC, 1600 MHz, PC3-12800

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Graphics	Ultra-high-end 3D: NVIDIA® Quadro® K6000, 12 GB, 2880 cores, PCIe x16, 1x Dual Link DVI-I, 1x Dual Link DVI-D, 2x DisplayPort
	GPU computing card: NVIDIA® GRID K1 16GB A, 16 GB, 768 cores, PCIe x16
	GPU computing card: NVIDIA® GRID K2 8GB A, 8 GB, 3072 cores, PCIe x16
	Ultra-high-end 3D: NVIDIA® Quadro® 6000, 6 GB, 448 cores, PCle x16, 1x DVI-I, 2x DisplayPort
	Ultra-high-end 3D: NVIDIA® Quadro® K5000, 4 GB, 1536 cores, PCIe x16, 1x Dual Link DVI-I, DVI-D, 2x DisplayPort
	High-end 3D: AMD FirePro™ W8000, 4 GB, 1792 stream processors, PCle x16, 4 x DisplayPort
	High-end 3D: AMD FirePro™ W7000, 4 GB, 1280 stream processors, PCle x16, 4 x DisplayPort
	High-end 3D: NVIDIA® Quadro® K4000, 3 GB, 768 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: NVIDIA® Quadro® K2000D, 2 GB, 384 cores, PCIe x16, 2x Dual Link DVI-I
	Midrange 3D: NVIDIA® Quadro® K2000, 2 GB, 384 cores, PCle x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: AMD FirePro™ W5000, 2 GB, 768 cores, PCle x16, 1x Dual Link DVI-I, 2x DisplayPort
	Entry 3D: AMD FirePro™ V4900, 1 GB, 480 stream processors, PCle x16, 1x Dual Link DVI-I, 2x DisplayPort
	Entry 3D: NVIDIA® Quadro® K600, 1 GB, 192 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort
	Entry 3D: AMD FirePro™ V3900, 1 GB, 480 stream processors, PCle x16, 1x Dual Link DVI-I, 1x DisplayPort
	Entry 3D: NVIDIA® Quadro® 410, 512 MB, 192 cores, PCIe x16, 1x DVI-I, 1x DisplayFort
	Professional 2D: NVIDIA® NVS 510, 2 GB, 16 cores, PCIe Gen2 x16, 4x miniDP
	Professional 2D: NVIDIA® NVS 310, 512 MB, 16 cores, PCIe Gen2 x16, 2x DisplayPort
	Professional 2D: NVIDIA® NVS 300, 512 MB, 16 cores, PCIe Gen2 x16, 2x LFH59 (DP/DVI-I)
	GPU computing card: NVIDIA® Tesla™ K20, 5 GB, 2496 cores, PCIe x16
	Remote Graphics: CELSIUS RemoteAccess Dual Card, PCle x1, 2x miniDP, PCoIP
	Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP
rsonal Supercomputing	Coprocessor: Intel® Xeon Phi™ Coprocessor 3120A, PCle x16
	Coprocessor: Intel® Xeon Phi™ Coprocessor 5110P, PCIe x16
rd disk drives (internal)	SSD SATA III Premium, 256 GB, 2.5-inch
	SSD SATA III Premium, 128 GB, 2.5-inch
	SSD SATA III, 512 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch, SED
	SSD SATA III, 128 GB, 2.5-inch
	HDD SATA III, 10000 rpm, 1000 GB, 2.5-inch, business critical
	HDD SATA III, 10000 rpm, 500 GB, 2.5-inch, business critical
	HDD SATA III, 7200 rpm, 4000 GB, 3.5-inch, business critical
	HDD SATA III, 7200 rpm, 3000 GB, 3.5-inch, business critical
	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 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
ard 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.
	24/7 ready (business critical HDDs required)
ives (optional)	BD Triple Writer SATA slim (tray)
A-L	DVD-ROM
	DVD Super Multi
	MCR 24in1 & USB 3.0 front con., 3.5"
	MultiCard Reader 24in1 USB 2.0 3.5"

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SCSI / SAS Controller	RAID Contr BBU Upgrade for RAID 5/6 Ctrl		
	RAID 5/6 Ctrl. 6 Gbit/s 8 ports ext. 512 MB Cache		
	RAID 0/1 Ctrl. 6 Gbit/s 8 ports ext.		
Interface add on cards/components (optional)			
3.1	WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only)		
	WLAN 802.11 abgn (2x2), (dedicated regions only)		
	USB 3.0 PCIe x1		
	Serial Interface FH		
	Gigabit Ethernet PCle x1, DS		
	eSATA Interface		
	Dual serial card PCIe x1		
	Dual 10 Gigabit Ethernet PCle x8		
Interface add on/component note	1x eSATA interface already on board		
Base unit	CELSIUS R930 CELSIUS R930 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 (depending on system configuration). Large memory may lead to long boot times. When using a 32-bit operating system the maximum of memory might be 900 MB.		
LAN	2x Built-in 10/100/1000 MBit/s Intel® 82579 LM and Intel® 82574L		
BIOS version	AMI Aptio 4.6		
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)		
Audio codec	Conexant CX20642		
Audio features	High Definition Audio		
I/O controller on board	·		
Serial ATA total	7		
thereof SATA III	2		
thereof eSATA	1		
SATA RAID support	0, 1, 10, 5		
SAS Controller type	optional upgrade to 8 ports, Intel C606		
SAS RAID support	0, 1, 10		
Interfaces			
Audio: in (rear)	1		
Audio: out (rear)	1		
Audio: in	1		
Audio: out	1		
Internal speakers	1		
USB 2.0 total	11		
USB 3.0 total	2		
USB front	4 (2x USB 3.0)		

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Interfaces			
USB rear	6		
USB internal	3, thereof 1 type A		
Serial (RS-232)			
Mouse / Keyboard (PS/2)	1/1		
Ethernet (RJ-45)	2		
eSATA	1		
Interface Module notes	Anytime USB charge functionality		
Drive bays			
Drive bays total	12		
2.5-inch bays	8		
3.5-inch internal bays	4		
3.5-inch external bays	2		
5.25-inch external bays	2		
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	
-		2.3 III(II 330	
Slots			
PCI-Express 3.0 x4	1 x (312 mm / 12.29 inch) Full height		
PCI-Express 3.0 x4 (mech. x16)	1 x (312 mm / 12.29 inch) Full height		
PCI-Express 3.0 x16	4 x (312 mm / 12.29 inch) Full height (2x PCle 3.0x16 per p	Drocessor)	
PCI-Express 2.0 x4 (mech. x8)	1 x (140 mm / 5.51 inch) Full height		
PCI (32-bit / 33 MHz)	1 x (312 mm / 12.29 inch) 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	
Operating 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 active	1100 W up to 90% efficiency	
Power factor correction/active power		active	
Noise for standard configuration (HDD,		10.0	
Related Processors for noise	Intel® Xeon® E5-2643v2 w/ Nvidia® Quadro K4000	Intel® Xeon® E5-2643v2 w/ Nvidia® Quadro K4000	
Standard noise emission	According to ISO 7779:2010, ECMA-74	According to ISO 7779:2010, ECMA-74	
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	4.0 B / 23 dB(A) Bystander position	4.0 B / 23 dB(A) Bystander position	
50% load	4.0 b / 23 db(A) bystander position	4.0 b7 23 db(A) bystalidel position	
Standard noise operation mode: CPU	4.3 B / 26 dB(A) Bystander position	4.3 B / 26 dB(A) Bystander position	
90% load			
Standard noise operation mode: HDD	4.0 B / 23 dB(A) Bystander position	4.0 B / 23 dB(A) Bystander position	
load	2.0.D / 22 dD/A) Dustander position	2.0.D./22.dD/A\Digitander position	
Standard noise operation mode: Idle mode	3.9 B / 22 dB(A) Bystander position	3.9 B / 22 dB(A) Bystander position	
Standard noise operation mode: ODD	4.6 B / 29 dB(A) Bystander position	4.6 B / 29 dB(A) Bystander position	
load			
Standard noise operation mode: Office	3.9 B / 22 dB(A) Bystander position	3.9 B / 22 dB(A) Bystander position	
applications 2.0			
Dimensions / Weight / Environmental			
Dimensions (W x D x H)	186 x 618 x 430 mm		
Operating position	Vertical / horizontal		
Weight	20 kg		
Weight notes	Actual weight may vary depending on configuration		

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Operating ambient temperature	10 - 35 ℃	
Operating relative humidity	5 - 85 % (relative humidity)	
Compliance		
Product	CELSIUS R930	CELSIUS R930 Power
Model	ETNA_L-D3118	
Germany	GS	
definally	depending on configuration	
Еигоре	(F	
USA/Canada	cCSAus	
osa canada	FCC Class B	
Global	RoHS (EU & China)	
diobai	·	601-1-2 in combination with medical kit
	Microsoft Operating System	
	ENERGY STAR® 5.0 in progre	
	WEEE (Waste electrical and	
	EPEAT® Silver (dedicated red	
Japan	VCCI	· · · · · · · · · · · · · · · · · · ·
Russia	EAC	
South Korea	KCC	
China	CCC (planned)	
Taiwan	BSMI (planned)	
Saudi Arabia	SASO	
		n leitae leastificatae
Compliance link	http://globalsp.ts.fujitsu.cor	n/sites/tertificates
Security		
Physical Security	Kensington Lock support	
	Eye for padlock	
	Intrusion switch	
	Integrated cabinet lock (opt	
System and BIOS Security	Write protect option for the	
		sk / CD drive and write protection for floppy disk drive
	Dynamic USB security for fu	
	Control of all USB interfaces	
	Trusted platform module (TI EraseDisk	701.2)
User Security	User and supervisor BIOS pa	ccword
oser security	•	al SmartCard reader (optional)
		al SmartCard reader (optional)
	- recess proceedon via interni	
Additional Software		
Additional software (preinstalled)	Workplace Protect (secure a	
		y (anti-virus and internet security software; 60 days trial version)
Allor I G I - "		to activate the pre-installed Microsoft Office)
Additional software (optional)	Drivers & Utilities DVD (DUD	VD) Windows® 8 and Windows® 7
Miscellaneous		
	Rack mountable (5U)	Rack mountable (5U)
Spare part availability	5 years	5 years
Manageability		
Manageability technology	DeskUpdate Driver manage	ment
ופייין נ	iAMT 8.0 (depending on CP	
Manageability software	DeskView Client	
,	DeskView Instant BIOS Man	
	DeckView Integration for Sv	mantec 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://www.fujitsu.com/fts/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	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations	
	minimum: 3 years material warranty)	
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty	
Maintenance and Support Services		
Recommended Service	9x5, 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

Kensington Combination Ultra



The Fujitsu Kensington Combination Ultra Laptop Lock protects your device Order Code: from theft. The push button design offers one hand operation for ease of use and the four-wheel combination lock makes it nearly impossible to crack. Simply anchor it to any fixed structure to get Ultra security.

S26361-F1650-L510

Display P23T-6 FPR 3D



If you're a pixel, color and performance-hungry professional using demanding 2D and 3D applications, Fujitsu Display P23T-6 FPR 3D is the perfect choice for you. The combination of the stunning IPS graphic panel with latest 3D FPR technology, unique energy efficiency features and sophisticated ergonomics make this display really unrivalled.

Order Code: S26361-K1370-V170

Display P27T-7 LED



Enjoy perfect picture quality with 3.7 Mio pixels, outstanding ergonomics Order Code: and usability as well as comfortable energy saving solutions of this 68.5 cm S26361-K1442-V140 (27-inch) widescreen Fujitsu P Line display.

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Wireless Mouse Touch WI910



The Fujitsu Wireless Mouse Touch WI910 has a special touch sensitive surface that recognizes when your hand touches the mouse even before you move it. This provides nearly instantaneous wake-up from the intelligent energy saving sleep mode. Unbeatable responsiveness combines with features like switchable resolution, and three programmable buttons for a unique user experience.

Order Code: S26381-K465-L100

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

SpaceMouse™ Pro



Using the SpaceMouse™ Pro 3D mouse to navigate 3D models or environments is as simple as holding them in your hand. A slight movement of the controller cap delivers easy and precise control. SpaceMouse™ Pro is a companion to the traditional mouse and is operated with the free hand. Your traditional mouse hand is free to select, create and edit.

Order Code: S26381-K459-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 OPTIMIZATION Services

In addition to Fujitsu CELSIUS R930, 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/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu CELSIUS R930, 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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