Fujitsu recommends Windows 8 Pro.

Data Sheet
Fujitsu CELSIUS W530 Workstation

Performance That Boosts Your Productivity

If you need a powerful entry-level workstation, Fujitsu's CELSIUS W530 is the ideal choice. The Fujitsu CELSIUS W530 workstation gives you the graphics capabilities and performance you need for entry-level 3D/CAD or DCC applications. Comprehensive ISV certifications ensure your professional applications run smoothly. Your workplace is silent and user-friendly thanks to best-in-class noise emissions. Plus, this compact workstation is individually configurable and allows easy tool-less expansion for greater working flexibility.

Powerful workstation
Get more done in less time
- The fastest available processors, graphics cards and hard disk drives for entry-level 3D/CAD or DCC applications

Quality
Highest quality and reliability for continuous productivity
- Designed and manufactured in Germany

Upgradeability
Minimum downtime in the event of rapid component upgrades
- Screw less access system design

Leading workstation application certification
Maximum compatibility and performance with customer-preferred applications
- Full support for ISV applications and easy integration into existing IT environments

Silent operation
No distraction by disturbing noises, improved concentration for office work and increased user productivity
- Best-in-class noise emission of only 18 db in idle mode

Fujitsu recommends Windows 8 Pro.

Components

Processor	Intel® Core™ i7-4770 processor (4 Cores / 8 Threads, 3.40 GHz, up to 3.9 GHz, 8 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i5-4670 processor (4 Cores / 4 Threads, 3.40 GHz, up to 3.8 GHz, 6 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i5-4570 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i3-4130 processor (2 Cores / 4 Threads, 3.40 GHz, 3 MB, Intel® HD Graphics 4400)
	Intel® Xeon® processor E3-1280v3 (4 Cores / 8 Threads, 3.60 GHz, up to 4.0 GHz, 8 MB)
	Intel® Xeon® processor E3-1275v3 (4 Cores / 8 Threads, 3.50 GHz, up to 3.8 GHz, 8 MB, Intel® HD Graphics P4600)
	Intel® Xeon® processor E3-1270v3 (4 Cores / 8 Threads, 3.50 GHz, up to 3.9 GHz, 8 MB)
	Intel® Xeon® processor E3-1245v3 (4 Cores / 8 Threads, 3.40 GHz, up to 3.8 GHz, 8 MB, Intel® HD Graphics P4600)
	Intel® Xeon® processor E3-1240v3 (4 Cores / 8 Threads, 3.40 GHz, up to 3.8 GHz, 8 MB)
	Intel® Xeon® processor E3-1230v3 (4 Cores / 8 Threads, 3.30 GHz, up to 3.7 GHz, 8 MB)
	Intel® Xeon® processor E3-1225v3 (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 8 MB, Intel® HD Graphics P4600)
	Intel® Xeon® processor E3-1220v3 (4 Cores / 4 Threads, 3.10 GHz, up to 3.5 GHz, 8 MB)
	Intel® vPro™ Logo with Intel® Core i5 and Core i7 processors Intel® vPro™ with all Intel® Xeon® processors
Operating systems	
Operating system	Windows 8 Pro Windows 8 Windows® 7 Professional 64-bit Windows® 7 Professional 32-bit
Operating system compatible	Linux
Operating system notes	Certified for Red Hat Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server Novell® certification pending For components not listed in this datasheet restrictions may apply.
Memory modules	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1600 MHz, PC3-12800, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1600 MHz, PC3-12800, DIMM
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
Graphics	High-end 3D: AMD FirePro™ W7000, 4 GB, 1280 stream processors, PCIe 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, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: AMD FirePro™ W5000, 2 GB, 768 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Entry 3D: AMD FirePro™ V4900, 1 GB, 480 stream processors, PCIe 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, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort
	Entry 3D: NVIDIA® Quadro® 410, 512 MB, 192 cores, PCIe x16, 1x DVI-I, 1x DisplayPort
	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)
	Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP
	Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP
Notes	NVIDIA® Quadro® K4000 and ATI FirePro™ W7000 require CELSIUS W530power.

Hard disk drives (internal)	SSHD SATA III, 7200 rpm, 1000 GB, 3.5-inch	
	SSHD SATA III, 5400 rpm, 500 GB, 2.5-inch	
	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	
	mSATA, 32 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	
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. 24/7 ready (business critical HDDs required) Up to 20 GB of HDD space is reserved for system recovery SSHD (Solid State Hard Disk, Hybrid drive) SED (Self-Encrypting Drive) SSD (Solid State Disk)	
Drives (optional)	BD Triple Writer SATA slim (tray)	
	DVD-ROM	
	DVD Super Multi	
	MultiCard Reader 24in1 USB 2.0 3.5"	
Interface add on cards/components (optional)		
	WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only)	
	WLAN 802.11 abgn (2x2), (dedicated regions only)	
	Parallel Interface	
	Gigabit Ethernet PCIe x1, DS	
	eSATA Interface	
	Dual serial card PCIe x1	
Base unit	CELSIUS W530	CELSIUS W530power
Mainboard		
Mainboard type	D3227	
Formfactor	µATX	
Chipset	Intel® C226	
Processor socket	LGA 1150	
Processor quantity maximum	1	
Memory slots	4 DIMM (DDR3) ECC/non-ECC	
Supported capacity RAM (max.)	32 GB	
Memory frequency	1600 MHz	
Memory notes	Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same.	
LAN	10/100/1000 MBit/s Intel® I217LM	
BIOS version	AMI Aptio 4.6	

Fujitsu recommends Windows 8 Pro.

Mainboard		
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)	
Audio codec	Realtek ALC671	
Audio features	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound	
I/O controller on board		
Serial ATA total	6	
thereof SATA III	6	
thereof eSATA	2 (optional)	
Controller functions	Serial ATA II (3 Gbit) Serial ATA III (6 Gbit) NCQ AHCI RAID 0/1/5/10 Intel® Smart Response Technology (depending on CPU)	
Interfaces		
Audio: line-in	1	
Audio: line-in / microphone	1	
Audio: line-out	1	
Front audio: microphone	1	
Front audio: headphone	1	
USB 2.0 total	9	
USB 3.0 total	4	
USB front	2x 2.0/ 2x 3.0	
USB rear	4x 2.0 / 2x 3.0	
USB internal	2x 2.0 + 1x 2.0	
VGA	1	
DisplayPort	1 (second DisplayPort optional)	
DVI	1 (DVI-D)	
Serial (RS-232)	1 (9pin, 16 byte FIFO, 16550 compatible)	
Mouse / Keyboard (PS/2)	2	
Ethernet (RJ-45)	1	
Parallel	1 (optional) (25pin with EPP and ECP)	
eSATA	1 (optional)	
Interface Module notes	Anytime USB charge functionality	
Drive bays		
Drive bays total	7	9
2.5-inch internal bays	1	1
3.5-inch internal bays	2	4
3.5-inch external bays	2	2
5.25-inch external bays	2	2
Drive bay notes	Up to 1x 2.5-inch HDDs and up to 2x 2.5/3.5-inch HDDs	Up to 1x 2.5-inch HDDs and up to 4x 2.5/3.5-inch HDDs
Slots		
PCI-Express 3.0 x16	1 x (340 mm / 13.39 inch) Full height	
PCI-Express 2.0 x4 (mech. x16)	1 x (170 mm / 6.69 inch) Full height	
PCI-Express x1	2 x (340 mm / 170 mm / 13.39 inch / 6.69 inch) Full height	
Graphics on board		
Graphics brand name	Intel® HD Graphics P4600, Intel® HD Graphics 4600, Intel® HD Graphics 4400	
Shared video memory	up to 1782 MB	

Graphics on board		
TFT resolution (VGA)	1024 x 768 pixel 1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1600 x 1200 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel	
TFT resolution (DVI)	1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel	
TFT resolution (DisplayPort)	1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel 2560 x 1440 pixel 2560 x 1600 pixel 3840 x 2160 pixel	
Graphics features	Support for up to three independent displays DirectX® 11.1 HDCP support Open GL® 3.3 Open CL® 1.2 For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows® 7 or Windows 8)	
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz	
Electrical values		
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 87% / 90% / 87%	power supply efficiency (at 230V; 20% / 50% / 100% load) : 87% / 90% / 87%
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	300 W	500 W
Power factor correction/active power	active	active
Noise for standard configuration (HDD, ODD)		
Noise emission	According to ISO9296	According to ISO9296
Related Processors for noise	Intel® Xeon® E3-1275v3	Intel® Xeon® E3-1285v3
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)) (depending on configuration)	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) (depending on configuration)
Standard noise operation mode: CPU 50% load	3.6 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: CPU 90% load	3.8 B / 22 dB(A) Bystander position	3.8 B / 22 dB(A) Bystander position

Noise for standard configuration (HDD, ODD)		
Standard noise operation mode: HDD load	3.3 B / 19 dB(A) Bystander position; 21 dB(A) Operator position	3.4 B / 19 dB(A) Bystander position; 21 dB(A) Operator position
Standard noise operation mode: Idle mode	3.3 B / 18 dB(A) Bystander position; 21 dB(A) Operator position	3.3 B / 18 dB(A) Bystander position; 21 dB(A) Operator position
Standard noise operation mode: ODD load	4.5 B / 29 dB(A) Bystander position	4.4 B / 28 dB(A) Bystander position
Standard noise operation mode: Office applications 2.0	3.3 B / 18 dB(A) Bystander position	3.3 B / 18 dB(A) Bystander position
Blue angel noise emission according certification	According to ISO 7779:2010, ECMA-74 for max. possible configuration	According to ISO 7779:2010, ECMA-74 for max. possible configuration
Blue angel noise notes / description	A-weighted sound power level Lwad (in B); 1B = 10dB	A-weighted sound power level Lwad (in B); 1B = 10dB
Blue angel noise operation mode: HDD load	3.7 B = 20 dB (A)	3.9 B = 24 dB (A)
Blue angel noise operation mode: Idle mode	3.6 B = 20 dB (A)	3.7 B = 23 dB (A)
Blue angel noise operation mode: ODD load	4.5 B = 28 dB (A)	4.5 B = 28 dB (A)

Dimensions / Weight / Environmental	
Dimensions (W x D x H)	175 x 419 x 395 mm
Operating position	Vertical
Weight	approx. 11 kg
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 W530	CELSIUS W530power
Model	MI5W	
Germany	TÜV GS	
Europe	CE	
USA/Canada	FCC Class B cCSAus	
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 (dedicated regions) EPEAT® Gold (dedicated regions)	
South Korea	KCC	
China	CCC (planned)	
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates	

Security	
Physical Security	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Intrusion switch (optional)
System and BIOS Security	EraseDisk (optional) Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces

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Security		
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional) SmartCase Logon+ (optional)	
Additional Software		
Additional software (preinstalled)	Workplace Protect (secure authentication solution) Adobe® Reader® (pdf reader) McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) Win7: Fujitsu Recovery (hard disk based recovery) Win8: Microsoft Push Button Recovery (hard disk based recovery) Microsoft Office (buy license to activate the pre-installed 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	
Miscellaneous		
	Keyboard on (Special Fujitsu keyboard required) Thermal management Extended lifetime	Keyboard on (Special Fujitsu keyboard required) Thermal management Extended lifetime
Manageability		
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) iAMT 9.0 (depending on CPU) WoL (Wake on LAN)	
Manageability software	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform	
DeskView components	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)	
Manageability link	http://www.fujitsu.com/fts/manageability	
Input device / components		
	Optical USB tilt wheel mouse	
Input devices (optional)	Optical USB/PS2 tilt wheel mouse KBPC PX ECO Mouse M440 ECO 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 - the perfect extension		
Recommended Service	9x5, Response Time: Next Business Day	

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Warranty	
Spare Parts availability	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/services/support

Recommended Accessories

Desktop & Peripherals Locking Kit		The Fujitsu Kensington Desktop and Peripherals Locking Kit comes with an 8 ft. high-carbon steel cable, anchor plate, and keyed lock. It can protect your desktop computer, two peripherals, a wired keyboard and a mouse all with a single strong cable. It is also the perfect security solution to protect devices lacking a Kensington security slot.	Order Code: S26361-F1650-L650
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 and usability as well as comfortable energy saving solutions of this 68.5 cm (27-inch) widescreen Fujitsu P Line display.	Order Code: S26361-K1442-V140
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
Wireless Keyboard Set LX900		The Wireless Keyboard LX900 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security.	S26381-K564-L4** (**: Country specific variation)

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More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu CELSIUS W530, 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 W530, 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

Green Policy Innovation

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