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Fujitsu recommends Windows® 7.

Data Sheet
Fujitsu CELSIUS W510 Workstation

Performance That Boosts Your Productivity

If you need a powerful entry-level workstation, Fujitsu's CELSIUS W510 is the ideal choice. Comprehensive ISV certifications ensure your professional applications run smoothly. Your workplace is silent and user-friendly thanks to best-in-class noise emissions. Plus, the cold-plug access at the front of the workstation lets you expand your storage capacity or change drives for enhanced working flexibility.

Extremely powerful workstations
Get more done in less time
■ The fastest available processors, graphics cards and hard disk drives

Noise-reduced system
Silent working enviroment
■ Optimized thermal management, low-noise chassis and silent fans

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

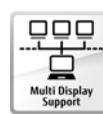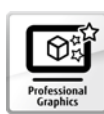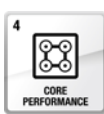**Leading workstation application certification**
Maximum compatibility and performance with customer-preferred applications
■ Full support for ISV applications and easy integration into existing IT environments

Easy and rapid hard disk changes
Customer can access and replace hard disks screwless at the front
■ Cold plug access

Components

Processor	Intel® Core™ i3-2120 processor (2 Cores / 4 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 2000)
	Intel® Core™ i3-2100 processor (2 Cores / 4 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics 2000)
	Intel® Xeon® processor E3-1280 (4 Cores / 8 Threads, 3.50 GHz, 8 MB)
	Intel® Xeon® processor E3-1275 (4 Cores / 8 Threads, 3.40 GHz, 8 MB, Intel® HD Graphics P3000)
	Intel® Xeon® processor E3-1270 (4 Cores / 8 Threads, 3.40 GHz, 8 MB)
	Intel® Xeon® processor E3-1245 (4 Cores / 8 Threads, 3.30 GHz, 8 MB, Intel® HD Graphics P3000)
	Intel® Xeon® processor E3-1240 (4 Cores / 8 Threads, 3.30 GHz, 8 MB)
	Intel® Xeon® processor E3-1235 (4 Cores / 8 Threads, 3.20 GHz, 8 MB, Intel® HD Graphics P3000)
	Intel® Xeon® processor E3-1230 (4 Cores / 8 Threads, 3.20 GHz, 8 MB)
	Intel® Xeon® processor E3-1225 (4 Cores / 4 Threads, 3.10 GHz, 6 MB, Intel® HD Graphics P3000)
	Intel® Xeon® processor E3-1220 (4 Cores / 4 Threads, 3.10 GHz, 8 MB)

Operating systems	
Operating system	Genuine Windows® 7 Professional 64-bit
	Genuine Windows® 7 Professional 32-bit
	Genuine Windows® 7 Home Premium 64-bit
Operating system compatible	Genuine Windows Vista® Business 64-bit
	Genuine Windows Vista® Business 32-bit
	Genuine Windows® XP Professional x64 Edition
	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, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM

Graphics add on cards (optional)	Entry 3D: AMD FirePro™ V4900, 1 GB, 400 stream processors, PCIe x16, Dual Link DVI-I, 2x DisplayPort
	Ultra-high-end 3D: NVIDIA® Quadro® 5000, 2.5 GB, 352 cores, PCIe x16, Dual Link DVI-I, 2x DisplayPort, DVI, VGA
	High-end 3D: AMD FirePro™ V7900, 2 GB, 1140 stream processors, PCIe x16, 4 x DisplayPort
	High-end 3D: ATI FirePro™ V7800, 2 GB, 1140 stream processors, PCIe x16, Dual Link DVI-I, 2x DisplayPort
	High-end 3D: NVIDIA® Quadro® 4000, 2 GB, 256 cores, PCIe x16, Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: ATI FirePro™ V5800, 1 GB, 800 stream processors, PCIe x16, Dual Link DVI-I, 2x 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, PCIe x16, Dual Link DVI-I, 2x DisplayPort
	Entry 3D: ATI FirePro™ V4800, 1 GB, 400 stream processors, PCIe x16, Dual Link DVI-I, 2x DisplayPort
	Entry 3D: NVIDIA® Quadro® 600, 1 GB, 96 cores, PCIe x16, Dual Link DVI-I, DisplayPort
	Entry 3D: NVIDIA® Quadro® 400 , 512 MB, 48 cores, PCIe x16, 1x DVI-I, DisplayPort
	Entry 3D: ATI FirePro™ V3800, 512 MB, 400 stream processors, PCIe x16, Dual Link DVI-I, DisplayPort
	Professional 2D: NVIDIA® Quadro® NVS 450, 512 MB, 2 x 8 cores, PCIe x16, 4 x DisplayPort
	Professional 2D: NVIDIA® Quadro® NVS 300, 512 MB, 16 cores, PCIe Gen2 x16, 2x DVI/VGA
	Remote Graphics: CELSIUS RemoteAccess Card, PCIe x1, 2x DVI-I

Notes	NVIDIA® Quadro® 5000, NVIDIA® Quadro® 4000 and ATI FirePro™ V7800 require CELSIUS W510 Power.

Hard disk drives (internal)	SSD SATA, 256 GB, 2.5-inch, full disk encryption
	SSD SATA, 256 GB, 2.5-inch
	SSD SATA, 128 GB, 2.5-inch, full disk encryption
	SSD SATA, 128 GB, 2.5-inch
	HDD SATA III, 10000 rpm, 600 GB, 3.5-inch internal
	HDD SATA III, 10000 rpm, 300 GB, 2.5-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, 320 GB, 3.5-inch
	HDD SATA II, 7200 rpm, 2000 GB, 3.5-inch, business critical
	HDD SATA, 160 GB, 2.5-inch
	512 GB, 2.5-inch
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 18 GB of HDD space is reserved for system recovery
Drives (optional)	Blu-ray Disc™ Triple Writer
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 20in1, USB 2.0, 3.5-Inch
	MultiCard Reader 20in1 USB 3.0 front con., 3.5-Inch
Interface add on cards/components (optional)	
	WLAN III, 802.11g/Draft-n (Windows only)
	USB 3.0 PCIe x1
	Parallel Interface
	Gigabit Ethernet PCIe x1, DS
	eSATA Interface
	Dual serial card PCIe x1, powered
	Dual serial card PCIe x1

Base unit	CELSIUS W510	CELSIUS W510power

Mainboard

Mainboard type	D3067
Formfactor	ATX
Chipset	Intel® C206
Processor socket	LGA 1155
Processor quantity maximum	1
Memory slots	4 DIMM (DDR3) ECC/non-ECC
Supported capacity RAM (max.)	32 GB
Memory frequency	1333 MHz
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).
LAN	10/100/1000 MBit/s Intel® 82579 LM
Integrated WLAN	Optional (for Windows only)
Audio codec	Conexant CX20642
Audio features	5.1 surround sound, High Definition audio, Internal speaker supports audio playback

I/O Controller

Serial ATA total	6
thereof SATA III	2

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I/O Controller

thereof eSATA	1, optional
SATA RAID support	0, 1, 10, 5

Interfaces

Audio: in (rear)	2
Audio: out (rear)	1
Audio: in	1
Audio: out	1
Internal speakers	1
USB 2.0 total	14
USB front	4
USB rear	8
USB internal	1 + 1
VGA	1 (depends on processor, via DVI to VGA adapter)
DisplayPort	1 (depends on processor)
DVI	1 (depends on processor)
Serial (RS-232)	1, (9 pin)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	1, optional
eSATA	1, optional
Interface Module notes	Anytime USB charge functionality

Drive bays

Drive bays total	8
3.5-inch internal bays	4
3.5-inch external bays	2
5.25-inch external bays	2

Slots

PCI-Express 2.0 x16	1 x (312 mm) Full height
PCI-Express 2.0 x4 (mech. x16)	1 x (210 mm) Full height
PCI-Express x1	2 x (312 mm) Full height
PCI (32-bit / 33 MHz)	3 x (312 / 170 mm) Full height

Graphics on board

Shared video memory	up to 1759 MB
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)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel

Graphics on board

TFT resolution (DisplayPort)	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
Graphics features	Dual display support DirectX 10.1 HDCP support Open GL® 3.0 For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows 7® only)
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%
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	300 W (CELSIUS W510); 500 W (CELSIUS W510power)

Noise for standard configuration (HDD, ODD, FDD)

Noise emission	According to ISO9296 (LpAm at bystander position)	According to ISO9296 (LpAm at bystander position)
Idle mode	18 dB(A)	18 dB(A)
Office mode	18 dB(A)	18 dB(A)
Noise notes / description	Actual noise emissions may vary depending on configuration	Actual noise emissions may vary depending on configuration

Dimensions / Weight / Environmental

Dimensions (W x D x H)	186 x 481 x 430 mm
Operating position	Vertical / horizontal
Weight	16 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 W510	CELSIUS W510power
Model	ETNA-S-D3067	MTB-D3067
Germany	GS	GS in progress
Europe	CE	
USA/Canada	FCC Class B cCSAus	
Global	RoHS (EU & China) ENERGY STAR® 5.0 EPEAT® Silver (dedicated regions) Medical EMC standard IEC60601-1-2 in combination with medical kit	RoHS (EU & China) ENERGY STAR® 5.0 in progress EPEAT® in progress (dedicated regions) Medical EMC standard IEC60601-1-2 in combination with medical kit
Compliance notes	Energy Star compliance may vary depending on actual configuration	
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/	

Security

System protection	Kensington Lock support
	Eye for padlock
	Seal option
	Intrusion switch
	Optional: Integrated cabinet lock
Audit proof protection	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
Access protection	Hard disk password
	User and supervisor BIOS password
	Optional: Access protection via SmartCard reader
	Optional: SmartCase Logon+

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)	Recovery DVD for Windows®
	Drivers & Utilities DVD (DUDVD)
	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)

Manageability

Manageability technology	DeskUpdate Driver management
Manageability software	DeskView 10.x client management including:
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
Supported standards	WMI
	BootP (made4you)
	PXE
Manageability link	http://ts.fujitsu.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html

Input device / components

	Optical USB tilt 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 - the perfect extension

Recommended Service	5x9, Response Time: Next Business Day
Service Weblink	http://ts.fujitsu.com/Supportservice

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More information

Fujitsu platform solutions

In addition to Fujitsu CELSIUS W510, 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 W510, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com/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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