Fujitsu recommends Windows 8 Pro.



Data Sheet Fujitsu CELSIUS M720 Workstation

Your "Thoroughbred" Workstation

If you're looking for reliable performance when using demanding applications, the Fujitsu CELSIUS M720 single-processor workstation meets your needs. It can be individually configured, helping you to enhance your productivity. It features best-in-class noise emissions of only 20 dB for a quiet and efficient working environment. Comprehensive ISV certifications ensure your applications run smoothly. Finally, the convenient cold plug access at front simplifies subsequent expansion.

Performance

Higher productivity

High performance multi-core processor, 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 128 GB

































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Components

Processor	Intel® Xeon® processor E5-2690 (8 Cores / 16 Threads, 2.90 GHz, up to 3.8 GHz, 20 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-2680 (8 Cores / 16 Threads, 2.70 GHz, up to 3.5 GHz, 20 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-2670 (8 Cores / 16 Threads, 2.60 GHz, up to 3.3 GHz, 20 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-2667 (6 Cores / 12 Threads, 2.90 GHz, up to 3.5 GHz, 15 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-2665 (8 Cores / 16 Threads, 2.40 GHz, up to 3.1 GHz, 20 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-2660 (8 Cores / 16 Threads, 2.20 GHz, up to 3.0 GHz, 20 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-2650L (8 Cores / 16 Threads, 1.80 GHz, up to 2.3 GHz, 20 MB, 7.2 GT/s)
	Intel® Xeon® processor E5-2650 (8 Cores / 16 Threads, 2.00 GHz, up to 2.8 GHz, 20 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-2643 (4 Cores / 8 Threads, 3.30 GHz, up to 3.5 GHz, 10 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-2640 (6 Cores / 12 Threads, 2.50 GHz, up to 3.0 GHz, 15 MB, 7.2 GT/s)
	Intel® Xeon® processor E5-2637 (2 Cores / 4 Threads, 3.00 GHz, up to 3.2 GHz, 5 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-2630L (6 Cores / 12 Threads, 2.00 GHz, up to 2.5 GHz, 15 MB, 6.4 GT/s)
	Intel® Xeon® processor E5-2630 (6 Cores / 12 Threads, 2.30 GHz, up to 2.8 GHz, 15 MB, 7.2 GT/s)
	Intel® Xeon® processor E5-2620 (6 Cores / 12 Threads, 2.00 GHz, up to 2.5 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)
	Intel® Xeon® processor E5-1660 (6 Cores / 12 Threads, 3.30 GHz, up to 3.9 GHz, 15 MB, 8.0 GT/s)
	Intel® Xeon® processor E5-1650 (6 Cores / 12 Threads, 3.20 GHz, up to 3.8 GHz, 12 MB)
	Intel® Xeon® processor E5-1620 (4 Cores / 8 Threads, 3.60 GHz, up to 3.8 GHz, 10 MB)
	Intel® Xeon® processor E5-1607 (4 Cores / 8 Threads, 3.00 GHz, 10 MB)
	Intel® Xeon® processor E5-1603 (4 Cores / 8 Threads, 2.80 GHz, 10 MB)
	Intel® vPro™ with all Intel® Xeon® processors
Operating systems	
Operating system	Windows® 7 Professional 64-bit
	Windows® 7 Home Premium 64-bit
Operating system compatible	Windows® XP Professional x64 Edition
	Windows® XP Professional
Operating system peter	Linux Pad Hat® cortification starting with version 6.2
Operating system notes	Red Hat® certification starting with version 6.3 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 (restriciton by Intel®). Therefore an additional storage controller
	(D2607 or D2616) is necessary.
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
	ו שט זו וווטשונינטן ד שטן טטונט, בכב, דטטט וזווזב, ו בט דבטטט

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Graphics	Ultra-high-end 3D: NVIDIA® Quadro® 6000, 6 GB, 448 cores, PCIe x16, 1x DVI-I, 2x DisplayPort		
	Ultra-high-end 3D: NVIDIA® Quadro® K5000, 4 GB, 1536 cores, PCIe x16, Dual Link DVI-I, DVI-D, 2x DisplayPort		
	Ultra-high-end 3D: NVIDIA® Quadro® 5000, 2.5 GB, 352 cores, PCle x16, Dual Link DVI-l, 2x DisplayPort		
	High-end 3D: AMD FirePro™ W7000, 4 GB, 1140 stream processors, PCle x16, 4 x DisplayPort		
	High-end 3D: AMD FirePro™ V7900, 2 GB, 1140 stream processors, PCle x16, 4 x DisplayPort		
	High-end 3D: NVIDIA® Quadro® K4000, 3 GB, 768 cores, PCIe x16, Dual Link DVI-I, 2x DisplayPort		
	High-end 3D: NVIDIA® Quadro® 4000, 2 GB, 256 cores, PCle x16, 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® 2000D, 1 GB, 192 cores, PCIe x16, 2x Dual Link DVI-I		
	Midrange 3D: NVIDIA® Quadro® K2000, 2 GB, 384 cores, PCIe x16, Dual Link DVI-I, 2x DisplayPort		
	Midrange 3D: NVIDIA® Quadro® 2000, 1 GB, 192 cores, PCIe x16, Dual Link DVI-I, 2x DisplayPort		
	Midrange 3D: AMD FirePro™ W5000, 2 GB, 800 stream processors, PCle 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: AMD FirePro™ V4900, 1 GB, 480 stream processors, PCle x16, Dual Link DVI-I, 2x DisplayPort		
	Entry 3D: NVIDIA® Quadro® K600, 2 GB, 192 cores, PCIe x16, Dual Link DVI-I, DisplayPort		
	Entry 3D: NVIDIA® Quadro® 600, 1 GB, 96 cores, PCle x16, Dual Link DVI-I, DisplayPort		
	Entry 3D: AMD FirePro™ V3900, 1 GB, 480 stream processors, PCle x16, Dual Link DVI-I, DisplayPort		
	Entry 3D: NVIDIA® Quadro® 410, 512 MB, 192 cores, PCIe x16, 1x 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		
	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		
ard disk drives (internal)	SSD SATA III, 512 GB, 2.5-inch		
	SSD SATA III, 256 GB, 2.5-inch		
	SSD SATA III, 128 GB, 2.5-inch		
	SSD SATA, 128 GB, 2.5-inch, FDE		
	HDD SATA III, 10000 rpm, 1000 GB, 2.5-inch, business critical		
	HDD SATA III, 10000 rpm, 600 GB, 2.5-inch		
	HDD SATA III, 10000 rpm, 500 GB, 2.5-inch, business critical		
	HDD SATA III, 10000 rpm, 300 GB, 2.5-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.		
	24/7 ready (business critical HDDs required)		
rives (optional)	BD Triple Writer SATA slim (tray)		
	DVD-ROM		
	DVD Super Multi		
	MultiCard Reader 24in1 USB 2.0 3.5"		

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Interface add on cards/components		
(optional)	MILANUIL 002 11 a/Draft a /Windows and understand regions and u	
	WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only) USB 3.0 PCIe x1	
	Serial Interface FH	
	Gigabit Ethernet PCle x1, DS	
	Gigabit Ethernet PCIe x1	
	eSATA Interface	
	Dual serial card PCle x1, powered	
	Dual serial card PCIe x1	
	Dual 1 Gigabit Ethernet PCle x4	
	Dual 10 Gigabit Ethernet PCle x8	
 Drives	up to 8x 2.5" HDDs (cold plug) and 1x 2.5" SSD or	
blives	up to 4x 3.5" HDDs (cold plug) and 1x 2.5" SSD or	
	up to 2x 2.5" and 2x 3.5" HDD (cold plug) and 1x 2.5" SSD	
	-F ((F3)	
Base unit	CELSIUS M720 CELSIUS M720 power	
Mainboard		
Mainboard type	D3128	
Formfactor	ATX	
Chipset	Intel® C602	
Processor socket	Socket R	
Processor quantity maximum	1	
Memory slots	8 DIMM (DDR3) ECC/non-ECC	
Supported capacity RAM (max.)	128 GB	
Memory notes	128 GB of memory will be offered as soon as 16 GB UDIMM memory modules are available. 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	Built-in 10/100/1000 MBit/s Intel® 82579 LM	
Audio codec	Conexant CX20642	
Audio features	High Definition Audio	
I/O controller on board		
Serial ATA total	6	
thereof SATA III	2	
SATA RAID support	0, 1, 10, 5	
SAS Controller type	optional upgrade to 4 ports, Intel C604	
SAS RAID support	0, 1, 10	
Interfaces		
Audio: in (rear)		
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)	
USB rear	6	
USB internal	3, thereof 1 type A	
Mouse / Keyboard (PS/2)	1/1	
Ethernet (RJ-45)	1	

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Interfaces	A C LICE I C C LI	
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	
Slots		
PCI-Express 3.0 x4 (mech. x8)	2 x (312 mm) Full height	
PCI-Express 3.0 x16	2 x (312 mm /) Full height	
PCI-Express 2.0 x4 (mech. x16)	1 x (312 mm /) Full height	
PCI (32-bit / 33 MHz)	2 x (312 mm /) Full height	
<u> </u>		
Electrical values	100 W J J: E	250 W J
Power consumption note	190 W depending on configuration	250 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 Max. output of single power supply	50 Hz - 60 Hz 500 W up to 90% efficiency	50 Hz - 60 Hz
	<u>'</u>	800 W up to 90% efficiency
Noise for standard configuration (HDD,		
Noise emission	According to ISO9296 (LpAm at bystander position)	According to ISO9296 (LpAm at bystander position)
Noise Operation mode 4: High load	20 dB(A)	20 dB(A)
Noise Operation mode 5: Office	20 dB(A)	20 dB(A)
applications		22.42(1)
Idle mode	20 dB(A)	20 dB(A)
Office mode	20 dB(A)	20 dB(A)
Noise notes	depending on configuration	depending on configuration
Dimensions / Weight / Environmental		
Dimensions (W x D x H)	186 x 481 x 430 mm	
Operating position	Vertical / horizontal	
Weight	18 kg	
Weight notes	Actual weight may vary depending on configuration	
Operating ambient temperature	10 - 35 ℃	
Operating relative humidity	5 - 85 % (relative humidity)	
Compliance		
Product	CELSIUS M720	CELSIUS M720 Power
Model	ETNA_S-D3128	
Germany	GS	
	depending on configuration	
Еигоре	CE	
USA/Canada	cCSAus	
	FCC Class B	
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® Silver (dedicated regions)	
Japan	VCCI	
Russia	GOST	
South Korea	KCC	

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Compliance			
China	CCC		
Taiwan			
Saudi Arabia	BSMI SASO		
Compliance link		s/certificates/default.aspx https://sp.ts.fujitsu.com/sites/certificates/	
<u> </u>	Trep.//giobaisp.es.rajiesa.com/site	sectificates/actionicaspy (https://spies.tajiesu.com/sites/certificates/	
Security System protection	Vancington Lock support		
System protection	Kensington Lock support Eye for padlock		
	Intrusion switch		
	Optional: Integrated cabinet lock		
Audit proof protection	Write protect option for the Flash	EPROM	
		D drive and write protection for floppy disk drive	
	Dynamic USB security for full hard	ware USB protection	
	Control of all USB interfaces		
	Trusted platform module (TPM 1 EraseDisk	(1)	
Access protection	User and supervisor BIOS passwo	d	
·	Optional: Access protection via ex		
	Optional: Access protection via in	ternal SmartCard reader	
Additional Software			
Additional software (preinstalled)	Norton Internet Security (incl. Fire	wall) 60 days version	
	Don't forget Office.		
Additional software (optional)		k software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not	
		ne system runs on Intel onboard graphics)	
	Drivers & Utilities DVD (DUDVD) V Nero Essentials (burning software		
	Neio Essentiais (builling software	-1	
Miscellaneous	Dod mountable /FII)	Dod moustable (FII)	
Spare part availability	Rack mountable (5U) 5 years	Rack mountable (5U) 5 years	
· · · · · · · · · · · · · · · · · · ·		J ycuis	
Manageability	D141- d-1- D-:		
Manageability technology	DeskUpdate Driver management iAMT Intel® Active Manageability	Technology v7.1 (not activated, not set up)	
Manageability software	DeskView Client	icemong, The (not occidence) not see up)	
	DeskView Instant BIOS Managem	ent	
	DeskView Integration for Symanto	ec Management Platform	
DeskView components	Inventory Management		
	BIOS Management		
	Driver Management		
	Security Management		
Conserved about deads	Alarm Management		
Supported standards	WMI BootP (made4you)		
	PXE		
	WoL (Wake on LAN)		
Manageability link	http://www.fujitsu.com/fts/manag	eability	
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		tries within region FTS CEMEA&I, for all other countries depending on local regulations	
	minimum: 3 years material warra		

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Warranty	
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Maintenance and Support Services	s - the perfect extension
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

MicroSaver Slim



The Fujitsu Kensington MicroSaver slim features the patented T-Bar locking mechanism with carbon tempered steel core cable and an external S26361-F1650-L200 braided steel sheath. The MicroSaver slim is available with Kensington Master Access. This security solution allows you to manage and maintain a limitless number of locks with a master key.

Order Code:

Display P24W-6 LED



Enjoy perfect picture quality, outstanding ergonomics and usability as well as comfortable energy saving solutions of this Fujitsu P Line widescreen display.

Order Code: S26361-K1428-V140

Mouse M440 FCO



Fujitsu Mouse M440 ECO is made from 100% bio material and has a completely PVC free cable. The elegant M440 ECO works on nearly every surface and follows all your hand movements smoothly and precisely. It features two main buttons and as well as a scroll wheel providing comfortable computing to both right and left-handed users.

Order Code: S26381-K450-L200

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

Order Code: S26381-K459-L100

Keyboard KBPC PX ECO



Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The S26381-K341-L1** (**: keyboard is made out of 45% renewable raw material and comes with a PVC country specific variation) free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras.

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More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu CELSIUS M720, 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 M720, 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 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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