

Windows®. Life without Walls™.
Fujitsu recommends Windows 7.

Data Sheet

Fujitsu CELSIUS W280 Workstation

Workstation power, PC format

The CELSIUS W280 is the manageable workstation for when a traditional PC just isn't enough. Powered by the latest Intel® processors and available with choice of professional graphics cards, it provides workstation performance in a compact PC design and is ideal for business environments such as entry-level 2D CAD.

Extremely powerful workstations

Get more done in less time

- The fastest available processors, graphics cards and hard disk drives

Noise-reduced system

Silent working environment

- Optimized thermal management, low-noise chassis and silent fans

Serviceability

Minimum downtime in the event of system failure

- Service-friendly system design

Leading workstation application certification

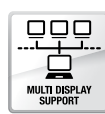
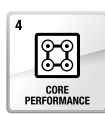
Maximum compatibility and performance with customer-preferred applications

- Full support for ISV applications and easy integration into existing IT environments

Built to order

Free configurability for all product lines

- Customer is given a system optimized for his requirements



Components

Operating system

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, non-ECC, 1333 MHz, PC3-10600, DIMM
4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM

Graphics add on cards (optional)

Midrange 3D: ATI FirePro™ V5800, 1 GB, 800 stream processors, PCIe x16, DL-DVI-I, 2x DP
Midrange 3D: NVIDIA® Quadro® 2000, 1 GB, 192 cores, PCIe x16, DL-DVI-I, 2x DP
Midrange 3D: ATI FirePro™ V5900, 2 GB, 800 stream processors, PCIe x16, DL-DVI-I, 2x DP
Entry 3D: ATI FirePro™ V4800, 1 GB, 400 stream processors, PCIe x16, DL-DVI-I, 2x DP
Entry 3D: NVIDIA® Quadro® 600, 1 GB, 96 cores, PCIe x16, DL-DVI-I, DP
Entry 3D: ATI FirePro™ V3800, 512 MB, 400 stream processors, PCIe x16, DL-DVI-I, DP
Entry 3D: NVIDIA® Quadro® FX 380, 256 MB, 16 cores, PCIe x16, 2x DL-DVI-I
Professional 2D: NVIDIA® Quadro® NVS 450, 512 MB, 2 x 8 cores, PCIe x16, 4 x DP
Professional 2D: NVIDIA® Quadro® NVS 295, 256 MB, 8 Cores, PCIe x16, 2x DP
Professional 2D: NVIDIA® Quadro® NVS 290, 256 MB, 16 cores, PCIe x16, 2x SL DVI-I

Hard disk drives (internal)

SSD SATA, 256 GB, 2.5-inch
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, 500 GB, 3.5-inch, business critical
HDD SATA II, 10000 rpm, 150 GB, 2.5-inch, S.M.A.R.T.
HDD SATA II, 7200 rpm, 2000 GB, 3.5-inch, business critical
HDD SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T.
HDD SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
HDD SATA II, 7200 rpm, 320 GB, 3.5-inch, S.M.A.R.T.
HDD SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T.
HDD SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.

Hard disk notes

One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.
2.5-inch drives will be mounted in the 3.5-inch bays

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
 Modem adapter kit (EU)
 Modem 56k incl. RJ11 modem cable
 Gigabit Ethernet PCIe x1
 FireWire PCI-Card IEEE1394
 eSATA Interface
 Dual serial card PCI

Base unit CELSIUS W280

Mainboard

Mainboard type D2912
Formfactor BTX
Chipset Intel® Q57
Processor socket LGA 1156
Processor quantity maximum 1
Memory slots 4 DIMM (DDR3)
Supported capacity RAM (max.) 16 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 Built-in 10/100/1000 MBit/s Intel® 82578 DM
Integrated WLAN Optional (for Windows only)
Audio codec Realtek ALC663
Audio features 5.1 surround sound, High Definition audio, Internal speaker supports audio playback

I/O Controller

Serial ATA total 4
thereof eSATA 1, optional
SATA RAID support 0, 1, 10

Interfaces

Audio: in (rear) 2
Audio: out (rear) 1
Audio: in 1
Audio: out 1
Internal speakers 1
USB 2.0 total 12
USB front 2
USB rear 8
USB internal 2
VGA 1 (depends on processor)
DisplayPort 1 (depends on processor)
DVI 1 or 2, optional (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	6
3.5-inch internal bays	2
3.5-inch external bays	2
5.25-inch external bays	2

Slots

PCI-Express 2.0 x16	1 x (312 mm) FlexySlot
PCI-Express 2.0 x4 (mech. x16)	1 x (190 mm) Full height
PCI (32-bit / 33 MHz)	2 x (170/312 mm) Full height

Graphics on board

Shared video memory	up to 256 MB
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Refresh rate 1024 x 768 (recommended / max.)	85 Hz
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Refresh rate 1280 x 1024 (recommended / max.)	85 Hz
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Refresh rate 1600 x 1200 (recommended / max.)	85 Hz
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TFT resolution (VGA)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
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TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
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Graphics notes	Graphics controller integrated in dual-core processors. For quad-core processors graphics card is mandatory. Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size For TFT we recommend using 60Hz
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Electrical values

Rated voltage range	100 V - 240 V
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Rated frequency range	50 Hz - 60 Hz
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Max. output of single power supply	300 W
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Noise for standard configuration (HDD, ODD, FDD)

Noise emission	According to ISO9296 (LpAm at bystander position)
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Idle mode	20 dB
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Office mode	20 dB(A)
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Noise notes / description	Actual noise emissions may vary depending on configuration
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Dimensions / Weight / Environmental

Dimensions (W x D x H)	203 x 390 x 392 mm
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Operating position	Vertical
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Weight	12 kg
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Weight notes	Actual weight may vary depending on configuration
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Operating ambient temperature	10 - 35°C
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Operating relative humidity	5 - 85 % (relative humidity)
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Compliance

Product	CELSIUS W280
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Model	MTB-D2912
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Germany	GS optional Blauer Engel / Blue Angel optional
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Europe	CE
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USA/Canada	FCC Class B cCSAus
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Compliance

Global	RoHS (EU & China) ENERGY STAR® 5.0 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/default.aspx

Security

System protection	Kensington Lock support Eye for padlock Seal option Intrusion switch Optional: Integrated cabinet lock
Audit proof protection	Write protect option for the Flash EPROM Embedded security (TPM 1.2) Disable / Hide TPM option
Access protection	Hard disk password User and supervisor BIOS password Optional: Access protection via SmartCard reader Optional: SmartCase Logon+

Additional Software

Additional software (optional)	Drivers & Utilities DVD (DUDVD) Windows® 7 & Vista & XP Recovery DVD TwinLoad Windows® XP downgrade pack
Additional software (included as a CD/DVD)	Norton Internet Security (incl. Firewall)

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/manageability

Input device / components

Input devices (optional)	Optical USB tilt wheel mouse Optical USB/PS2 tilt wheel mouse Space Explorer USB Space Navigator USB Space Pilot USB Keyboard
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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

More information

Fujitsu platform solutions

In addition to Fujitsu CELSIUS W280, 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 W280, 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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Contact

FUJITSU Technology Solutions
Website: <http://ts.fujitsu.com>
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