

# DATASHEET

## FUJITSU CELSIUS W380 WORKSTATIONS

WELCOME TO A WORLD OF POWER

The CELSIUS W380 is the versatile all-round workstation for entry-level graphics applications. Powered by the latest Intel® processors, it is the ideal choice business environments such as entry-level CAD, digital content creation and finance. Thanks to the ISV certification process you can be guaranteed that your preferred professional applications will run with maximum speed and system stability.

### GOOD PERFORMANCE

Higher productivity

- State-of-the art processors, graphic cards and hard disk drives

### ERGONOMICS

Quiet system for a pleasant working environment

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

### FLEXIBILITY

Suitable for all application areas

- Excellent flexibility for all tasks

### LEADING WORKSTATION APPLICATION CERTIFICATION

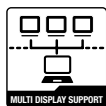
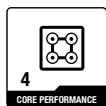
Maximum compatibility and performance with customer-preferred applications

- 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

<b>PROCESSOR</b>	Intel® Core™ i5 processor i5-670 (2C/4T, 3.46 GHz, 4 MB, Intel® HD Graphics) Intel® Core™ i5 processor i5-660 (2C/4T, 3.33 GHz, 4 MB, Intel® HD Graphics) Intel® Core™ i5 processor i5-650 (2C/4T, 3.20 GHz, 4 MB, Intel® HD Graphics) Intel® Core™ i3 processor i3-530 (2C/4T, 2.93 GHz, 4 MB, Intel® HD Graphics) Intel® Xeon® processor X3450 (4C/8T, 2.66 GHz, 8 MB) Intel® Pentium® processor G6950 (2C/2T, 2.80 GHz, 3 MB, Intel® HD Graphics)
<b>MEMORY MODULES</b>	4 GB (1 module(s) 4 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 2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM 2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
<b>GRAPHICS ADD ON CARDS (OPTIONAL)</b>	Midrange 3D: NVIDIA® Quadro FX 1800, 768 MB, PCIe x16, DL-DVI-I, 2x DP Midrange 3D: NVIDIA® Quadro FX 580, 512 MB, PCIe x16, DL-DVI-I, 2x DP Entry 3D: NVIDIA® Quadro FX 380, 256 MB, PCIe x16, 2x DL-DVI-I Entry 3D: ATI FirePro™ V3700, 256 MB, PCIe x16, 2x DL-DVI-I Multi monitor 2D: NVIDIA® Quadro NVS 450, 512 MB, PCIe x1, 4 x DP Professional 2D: NVIDIA® Quadro NVS 290, 256 MB, PCIe x16, 2x SL DVI-I
<b>HARD DISK DRIVES (INTERNAL)</b>	SSD SATA, 256 GB, 2.5-inch SSD SATA, 128 GB, 2.5-inch SATA II, 10000 rpm, 300 GB, 2.5-inch, S.M.A.R.T. SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T. business critical SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T. SATA II, 7200 rpm, 750 GB, 3.5-inch, S.M.A.R.T. business critical SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T. SATA II, 7200 rpm, 320 GB, 3.5-inch, S.M.A.R.T. SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T. SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.
<b>Hard disk notes</b>	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
<b>DRIVES (OPTIONAL)</b>	Blu-ray Disc Triple Writer DVD-ROM DVD Super Multi MultiCard Reader 20in1, 3,5-Inch
<b>INTERFACE ADD ON CARDS/COMPONENTS (OPTIONAL)</b>	WLAN III, 802.11g/Draft-n (Windows only) Parallel Interface Gigabit Ethernet PCIe x1 eSATA Interface Dual serial card, PCI, EX-43092
<b>Base unit</b>	CELSIUS W380
<b>MAINBOARD</b>	
<b>Mainboard type</b>	D2917
<b>Formfactor</b>	BTX
<b>Chipset</b>	Intel® 3450
<b>Processor socket</b>	LGA 1156
<b>Processor quantity maximum</b>	1
<b>Memory slots</b>	4 DIMM (DDR3) ECC/non-ECC
<b>Supported capacity RAM (max.)</b>	16 GB

## MAINBOARD

<b>Memory frequency</b>	1333 MHz
<b>Memory notes</b>	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).
<b>LAN</b>	Built-in 10/100/1000 MBit/s Intel® 82578 LM
<b>WLAN</b>	Optional (for Windows only)
<b>Audio codec</b>	Realtek ALC663
<b>Audio features</b>	5.1 surround sound, High Definition audio, Internal speaker supports audio playback

## I/O CONTROLLER

<b>Serial ATA total</b>	6
<b>thereof eSATA</b>	1, optional
<b>SATA RAID support</b>	0, 1, 10, 5

## INTERFACES

<b>Audio: in (rear)</b>	2
<b>Audio: out (rear)</b>	1
<b>Front Audio: in</b>	1
<b>Front Audio: out</b>	1
<b>Internal speakers</b>	1
<b>USB 2.0 total</b>	13
<b>USB front</b>	2
<b>USB rear</b>	8
<b>USB internal</b>	2 + 1
<b>Display Port</b>	1 (depends on processor)
<b>VGA</b>	1 (depends on processor)
<b>DVI</b>	1 or 2, optional (depends on processor)
<b>Serial (RS-232)</b>	1, (9 pin)
<b>Mouse / Keyboard (PS/2)</b>	2
<b>Ethernet (RJ-45)</b>	1
<b>Parallel</b>	1, optional
<b>eSATA</b>	1, optional

## DRIVE BAYS

<b>Drive bays total</b>	8
<b>3.5-inch internal bays</b>	4
<b>3.5-inch external bays</b>	2
<b>5.25-inch external bays</b>	2

## SLOTS

<b>PCI-Express Gen2 x16</b>	1 x (312 mm) full height
<b>PCI-Express Gen2 x4 (mech. x16)</b>	1 x (190 mm) full height
<b>PCI-Express x1</b>	2 x (300 mm) full height
<b>PCI (32-bit / 33 MHz)</b>	3 x (312 mm)

## GRAPHICS ON BOARD

<b>Shared video memory</b>	up to 256 MB
<b>Refresh rate 1024 x 768 (recommended / max.)</b>	85 Hz /
<b>Refresh rate 1280 x 1024 (recommended / max.)</b>	85 Hz /
<b>Refresh rate 1600 x 1200 (recommended / max.)</b>	85 Hz /
<b>TFT resolution (VGA)</b>	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel

## GRAPHICS ON BOARD

<b>TFT resolution (DVI)</b>	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
<b>Graphics notes</b>	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

## ELECTRICAL VALUES

<b>Rated voltage range</b>	100 - 240 V
<b>Rated frequency range</b>	50 - 60 Hz
<b>Max. output of power supply</b>	300 W

## NOISE FOR STANDARD CONFIGURATION (HDD, ODD, FDD)

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

## DIMENSIONS / WEIGHT / ENVIRONMENTAL

<b>Dimensions (W x D x H)</b>	203 x 426 x 442 mm
<b>Operating position</b>	Vertical / horizontal
<b>Weight</b>	16 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	15 - 35°C
<b>Operating relative humidity</b>	10 - 75 %

## COMPLIANCE

<b>Product</b>	CELSIUS W380
<b>Model</b>	MTB-D2917
<b>Germany</b>	GS optional Blauer Engel / Blue Angel optional
<b>Europe</b>	CE
<b>USA/Canada</b>	FCC Class B cCSAus
<b>Global</b>	RoHS (Restriction of hazardous substances) Medical certification IEC60601-1-2 in combination with medical kit ENERGY STAR® 5.0
<b>Compliance notes</b>	Energy Star compliance may vary depending on actual configuration
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates/default.aspx">https://sp.ts.fujitsu.com/sites/certificates/default.aspx</a>

## SECURITY

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

## OPERATING SYSTEM

<b>Operating system optional preinstalled</b>	Microsoft® Windows® 7 Professional 64-bit Microsoft® Windows® 7 Professional 32-bit Microsoft® Windows® 7 Home Premium 64-bit
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**OPERATING SYSTEM**

<b>Operating system compatible</b>	Microsoft® Windows Vista® Business 64-bit Microsoft® Windows Vista® Business 32-bit Microsoft® Windows® XP Professional x64 Edition Microsoft® Windows® XP Professional Linux
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<b>Operating system notes</b>	RedHat / Novell certification pending For some configurations third party drivers are currently not available or configuration restrictions may apply.
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**ADDITIONAL SOFTWARE**

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

<b>Manageability features</b>	iAMT Intel® Active Manageability Technology v6.0 (not activated, not set up)
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<b>Manageability type</b>	DeskView 10
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<b>Manageability link</b>	<a href="http://ts.fujitsu.com/manageability">http://ts.fujitsu.com/manageability</a>
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**INPUT DEVICE / COMPONENTS**

	Optical USB tilt wheel mouse
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<b>Input devices (optional)</b>	Optical USB/PS2 tilt wheel mouse Space Explorer USB Space Navigator USB Space Pilot USB Keyboard
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**Standard Warranty**

<b>Service Weblink</b>	<a href="http://ts.fujitsu.com/Supportservice">http://ts.fujitsu.com/Supportservice</a>
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#### FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu CELSIUS W380, 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/](http://www.fujitsu.com/global/services/computing/)

#### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

#### MORE INFORMATION

Learn more about Fujitsu CELSIUS W380, 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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