

# DATASHEET

## FUJITSU CELSIUS R570 WORKSTATION

YOUR COMPACT “POWERHOUSE” WORKSTATION

The CELSIUS R series is the dual-processor platform for the mid-range and high-end segment with a great selection of graphics subsystems. Energy efficiency and state-of-the-art microprocessor technology make this compact powerhouse the ideal solution for application areas, such as computer aided design, engineering, mechanical design, simulation, virtual reality, visualization, digital content creation and finance.

**PERFORMANCE**

Higher productivity

- High performance multi-core processors, hard disk drives and next generation graphics subsystems

**ERGONOMICS**

Quiet system for a pleasant working environment

- 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**

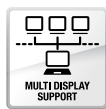
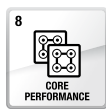
Stability, compatibility and performance for the main workstation applications

- 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 96 GB



# COMPONENTS

## PROCESSOR

Intel® Xeon® processor X5670 (6C, 2.93 GHz)
Intel® Xeon® processor X5670 (6C, 2.93 GHz, 12 MB, 6.4 GT/s)
Intel® Xeon® processor X5667 (4C, 3.06 GHz)
Intel® Xeon® processor X5667 (4C, 3.06 GHz, 12 MB, 6.4 GT/s)
Intel® Xeon® processor X5660 (6C, 2.80 GHz)
Intel® Xeon® processor X5660 (6C, 2.80 GHz, 12 MB, 6.4 GT/s)
Intel® Xeon® processor X5650 (6C, 2.66 GHz)
Intel® Xeon® processor X5650 (6C, 2.66 GHz, 12 MB, 6.4 GT/s)
Intel® Xeon® processor X5570 (4C, 2.93 GHz, 8 MB, 6.4 GT/s)
Intel® Xeon® processor X5560 (4C, 2.8 GHz, 8 MB, 6.4 GT/s)
Intel® Xeon® processor X5550 (4C, 2.66 GHz, 8 MB, 6.4 GT/s)
Intel® Xeon® processor L5640 (6C, 2.26 GHz)
Intel® Xeon® processor L5640 (6C, 2.26 GHz, 12 MB, 5.86 GT/s)
Intel® Xeon® processor L5630 (4C, 2.13 GHz)
Intel® Xeon® processor L5630 (4C, 2.13 GHz, 12 MB, 5.86 GT/s)
Intel® Xeon® processor L5609 (4C, 1.86 GHz)
Intel® Xeon® processor L5609 (4C, 1.86 GHz, 12 MB, 5.86 GT/s)
Intel® Xeon® processor L5530 (4C, 2.40 GHz, 8 MB, 5.86 GT/s)
Intel® Xeon® processor L5520 (4C, 2.26 GHz, 8 MB, 5.86 GT/s)
Intel® Xeon® processor L5506 (4C, 2.13 GHz, 4 MB, 4.8 GT/s)
Intel® Xeon® processor E5640 (4C, 2.66 GHz)
Intel® Xeon® processor E5640 (4C, 2.66 GHz, 12 MB, 5.86 GT/s)
Intel® Xeon® processor E5630 (4C, 2.53 GHz)
Intel® Xeon® processor E5630 (4C, 2.53 GHz, 12 MB, 5.86 GT/s)
Intel® Xeon® processor E5620 (4C, 2.40 GHz)
Intel® Xeon® processor E5620 (4C, 2.40 GHz, 12 MB, 5.86 GT/s)
Intel® Xeon® processor E5540 (4C, 2.53 GHz, 8 MB, 5.86 GT/s)
Intel® Xeon® processor E5530 (4C, 2.4 GHz, 8 MB, 5.86 GT/s)
Intel® Xeon® processor E5520 (4C, 2.26 GHz, 8 MB, 5.86 GT/s)
Intel® Xeon® processor E5507 (4C, 2.26 GHz)
Intel® Xeon® processor E5507 (4C, 2.26 GHz, 4 MB, 4.8 GT/s)
Intel® Xeon® processor E5506 (4C, 2.13 GHz, 4 MB, 4.8 GT/s)
Intel® Xeon® processor E5504 (4C, 2.0 GHz, 4 MB, 4.8 GT/s)
Intel® Xeon® processor E5503 (2C, 2.00 GHz)
Intel® Xeon® processor E5503 (2C, 2.00 GHz, 4 MB, 4.8 GT/s)
Intel® Xeon® processor E5502 (2C, 1.86 GHz, 4 MB, 4.8 GT/s)

## MEMORY MODULES

8 GB (1 module(s) 8 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600
4 GB (1 module(s) 4 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600
4 GB (1 module(s) 4 GB) DDR3, ECC, 1333 MHz, PC3-10600
2 GB (1 module(s) 2 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600
2 GB (1 module(s) 2 GB) DDR3, ECC, 1333 MHz, PC3-10600
1 GB (1 module(s) 1 GB) DDR3, ECC, 1333 MHz, PC3-10600
1 GB (1 module(s) 1 GB) DDR3, 1333 MHz, PC3-10600

<b>GRAPHICS ADD ON CARDS (OPTIONAL)</b>	Remote Graphics: CELSIUS RemoteAccess Card, PCIe x1, 2x DVI-I
	GPU computing card: NVIDIA® Tesla™ C1060, 4 GB, PCIe x16, -
	Ultra-high-end 3D: NVIDIA® Quadro® FX 5800, 4 GB, PCIe x16, 2x DL-DVI-I, DP
	Ultra-high-end 3D: NVIDIA® Quadro® FX 4800, 1.5 GB, PCIe x16, 2x DL-DVI-I, 2x DP
	High-end 3D: NVIDIA® Quadro® FX 3800, 1024 MB, PCIe x16, DL-DVI-I, 2x DP
	High-end 3D: ATI FirePro™ V7750, 1024 MB, PCIe x16, 2x DP, 1x DVI-I
	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
	Professional 2D: NVIDIA® Quadro® NVS 450, 512 MB, PCIe x1, 4 x DP
	Professional 2D: NVIDIA® Quadro® NVS 295, 256 MB, PCIe x16, 2x DP
	Professional 2D: NVIDIA® Quadro® NVS 290, 256 MB, PCIe x16, 2x SL DVI-I
	Professional 2D: NVIDIA® Quadro® NVS 290, 256 MB, PCIe x1, 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, 10000 rpm, 150 GB, 2.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 2000 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. 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. 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, 160 GB, 3.5-inch, S.M.A.R.T.
	SAS, 15000 rpm, 450 GB, 3.5-inch
	SAS, 15000 rpm, 300 GB, 3.5-inch
	SAS, 15000 rpm, 146 GB, 3.5-inch
	SAS, 15000 rpm, 3.5-inch internal

<b>Hard disk notes</b>	2.5-inch drives will be mounted in the 3.5-inch bays One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.
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<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)
	Gigabit Ethernet PCIe x1
	FireWire PCI-Card IEEE1394
	eSATA Interface
	Dual serial card, PCI, EX-43092

<b>Base unit</b>	CELSIUS R570-2	CELSIUS R570-2 power
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<b>MAINBOARD</b>		
<b>Mainboard type</b>	D2628	D2628
<b>Formfactor</b>	extended CEB	extended CEB
<b>Chipset</b>	Intel® 5520, Intel® 82801JIR ICH10R	Intel® 5520, Intel® 82801JIR ICH10R
<b>Processor socket</b>	LGA 1366	LGA 1366
<b>Processor quantity maximum</b>	2	2
<b>Memory slots</b>	6 (3 per processor)	6 (3 per processor)
<b>Supported capacity RAM (max.)</b>	96 GB	48 GB

**MAINBOARD**

<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).	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 Realtek RTL8111	Built-in 10/100/1000 MBit/s Realtek RTL8111
<b>Audio codec</b>	Realtek ALC663	Realtek ALC663
<b>Audio features</b>	High Definition Audio	High Definition Audio

**I/O CONTROLLER ON BOARD**

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

**INTERFACES**

<b>Audio: in (rear)</b>	1	1
<b>Audio: out (rear)</b>	2	2
<b>Front Audio: in</b>	1	1
<b>Front Audio: out</b>	1	1
<b>Internal speakers</b>	1	1
<b>USB 2.0 total</b>	11	11
<b>USB front</b>	2	2
<b>USB rear</b>	6	6
<b>USB internal</b>	3, thereof 1 type A	3, thereof 1 type A
<b>Serial (RS-232)</b>	1 (9 pin)	1 (9 pin)
<b>Mouse / Keyboard (PS/2)</b>	1 / 1	1 / 1
<b>Ethernet (RJ-45)</b>	1	1
<b>FireWire (IEEE1394)</b>	optional	optional
<b>Interface Module notes</b>	Anytime USB charge functionality	Anytime USB charge functionality

**DRIVE BAYS**

<b>Drive bays total</b>	7	7
<b>3.5-inch internal bays</b>	4	4
<b>5.25-inch external bays</b>	3	3

**SLOTS**

<b>PCI-Express 2.0 x16</b>	2 x (312 mm) full height	2 x (312 mm) full height
<b>PCI-Express 1.0 x4 (mech. x8)</b>	1 x (312 mm) full height	1 x (312 mm) full height
<b>PCI-Express 2.0 x4 (mech. x8)</b>	1 x (312 mm) full height	1 x (312 mm) full height
<b>PCI (32-bit / 33 MHz)</b>	2 x (312 mm) full height	2 x (312 mm) full height

**Graphics brand name**

<b>Graphics notes</b>	For some configurations third party drivers are currently not available or configuration restrictions may apply.	For some configurations third party drivers are currently not available or configuration restrictions may apply.
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**ELECTRICAL VALUES**

<b>Operating voltage range</b>	100 - 240 V	100 - 240 V
<b>Operating line frequency range</b>	50 - 60 Hz	50 - 60 Hz
<b>Max. output of single power supply</b>	700 W up to 85% efficiency	1000 W up to 85% efficiency

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

<b>Noise emission</b>	According to ISO9296	According to ISO9296
<b>Noise Operation mode 4: High load</b>	23 dB(A)	23 dB(A)
<b>Idle mode</b>	23 dB(A)	23 dB(A)
<b>Office mode</b>	23 dB(A)	23 dB(A)
<b>Noise notes / description</b>	depending on configuration	depending on configuration

**DIMENSIONS / WEIGHT / ENVIRONMENTAL**

<b>Dimensions (W x D x H)</b>	215 x 522 x 446 mm
<b>Weight</b>	20 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration

**DIMENSIONS / WEIGHT / ENVIRONMENTAL****Operating ambient temperature** 15 - 35°C**Operating relative humidity** 10 - 75 %**COMPLIANCE**

<b>Product</b>	CELSIUS R570-2	CELSIUS R570-2 power
<b>Model</b>	MCS-D2628	MCS-D2628
<b>Germany</b>	GS depending on configuration	GS depending on configuration
<b>Europe</b>	CE	CE
<b>USA/Canada</b>	cCSAus FCC Class B	cCSAus FCC Class B
<b>Global</b>	RoHS (EU & China) ENERGY STAR® 5.0 Medical EMC standard IEC60601-1-2 in combination with medical kit	RoHS (EU & China) ENERGY STAR® 5.0 Medical EMC standard IEC60601-1-2 in combination with medical kit
<b>China</b>	CCC	CCC
<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>	<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 Optional: Integrated cabinet lock Intrusion switch Seal option
<b>System security</b>	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Dynamic USB security for full hardware USB protection Control of all USB interfaces External USB ports can be disabled separately Embedded security (TPM 1.2) - Infineon
<b>User security</b>	Optional: Access protection via internal SmartCard reader User and supervisor BIOS password Optional: SmartCase Logon+

**OPERATING SYSTEM**

<b>Operating system optional preinstalled</b>	Microsoft® Windows® 7 Professional 64-bit Microsoft® Windows® 7 Professional 32-bit
<b>Operating system compatible</b>	Microsoft® Windows® XP Professional x64 Edition Microsoft® Windows® XP Professional Linux
<b>Operating system notes</b>	Red Hat® certification pending Novell® certification pending For some configurations third party drivers are currently not available or configuration restrictions may apply.

**ADDITIONAL SOFTWARE**

<b>Additional software (optional)</b>	Drivers & Utilities DVD (DUDVD) Windows® 7 & Vista & XP CyberLink PowerDVD 9 Nero 9 Essentials XL Recovery DVD (Windows® 7) Windows® XP 64 downgrade pack Windows® XP 32 downgrade pack
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**MANAGEABILITY**

<b>Manageability features</b>	DeskUpdate Driver management
<b>Manageability type</b>	DeskView 10.x client management including: DASH 1.1 remote system management
<b>DeskView features</b>	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration

**MANAGEABILITY**

<b>Supported standards</b>	WMI BootP (made4you) PXE
<b>Manageability link</b>	<a href="http://ts.fujitsu.com/manageability">http://ts.fujitsu.com/manageability</a>

**INPUT DEVICE / COMPONENTS**

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

<b>Standard Warranty</b>	3 years (depending on country)
<b>Service level</b>	On-site Service (depending on country)

**MAINTENANCE AND SUPPORT SERVICES - THE PERFECT EXTENSION**

<b>Recommended Service</b>	5x9, Response Time: Next Business Day
<b>Service Weblink</b>	<a href="http://ts.fujitsu.com/Supportservice">http://ts.fujitsu.com/Supportservice</a>

#### FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu CELSIUS R570, 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 R570, 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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