

Data Sheet

FUJITSU Workstation CELSIUS J550

Small and Powerful

If you need a powerful yet small workstation, Fujitsu's CELSIUS J550 is the ideal choice for entry-level 3D, CAD, financial applications as well as the healthcare industry. Thanks to its innovative 10 liter design, the CELSIUS J550 small form factor workstation is the first to support standard, full-height graphics cards.

Small but a strong performer

Astounding computing power in a small form factor

- Choose between the energy-efficient Intel® Core™ processors or the powerful Intel® Xeon® E3-1200 v5 processor family
- Support of Windows 10 or Linux® operating systems
- Next generation DDR4 memory up to 64 GB
- Boost your storage performance to a capacity of up to 13.5 TB and take advantage of the super-fast PCIe SSDs up to 512 GB to provide a quick loading of core applications and reliable high-endurance and business critical drives designed for extended lifetime usage

Innovative design

Support of standard, full height graphics cards and legacy slots for a great customer TCO

- Up to NVIDIA® Quadro® K2200 graphic card
- Legacy PCI is still optionally available

The smallest member of the CELSIUS workstation family

The CELSIUS J550 combines powerful workstation performance and great expandability

- Small footprint in a 10 liter design
- 66% smaller form factor than the CELSIUS W550 micro-tower

Multi-monitor experience

Enjoy maximum viewing capabilities and increase your productivity

- Support 4 monitors when choosing AMD Eyefinity™ or NVIDIA® Mosaic™ technologies
- Up to 8 monitors when selecting Nvidia's professional 2D graphics

Whisper quiet design Made in Germany

Fujitsu's desktop workstations are designed, engineered and manufactured in the heart of Europe

- Optimized thermal management and cooling solutions
- NVIDIA® NVS™ 315 fanless graphic card



Components

Processor	<p>Intel® Core™ i7-6700 processor (4 Cores / 8 Threads, 3.40 GHz, up to 4.0 GHz, 8 MB, Intel® HD Graphics 530) *</p> <p>Intel® Core™ i5-6600 processor (4 Cores / 4 Threads, 3.30 GHz, up to 3.9 GHz, 6 MB, Intel® HD Graphics 530) *</p> <p>Intel® Core™ i5-6500 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 530) *</p> <p>Intel® Core™ i3-6100 processor (2 Cores / 4 Threads, 3.70 GHz, 3 MB, Intel® HD Graphics 530)</p> <p>Intel® Xeon® processor E3-1280v5 (4 Cores / 8 Threads, 3.70 GHz, up to 4.0 GHz, 8 MB) *</p> <p>Intel® Xeon® processor E3-1275v5 (4 Cores / 8 Threads, 3.60 GHz, up to 4.0 GHz, 8 MB, Intel® HD Graphics P530) *</p> <p>Intel® Xeon® processor E3-1270v5 (4 Cores / 8 Threads, 3.60 GHz, up to 4.0 GHz, 8 MB) *</p> <p>Intel® Xeon® processor E3-1245v5 (4 Cores / 8 Threads, 3.50 GHz, up to 3.9 GHz, 8 MB, Intel® HD Graphics P530) *</p> <p>Intel® Xeon® processor E3-1240v5 (4 Cores / 8 Threads, 3.50 GHz, up to 3.9 GHz, 8 MB) *</p> <p>Intel® Xeon® processor E3-1230v5 (4 Cores / 8 Threads, 3.40 GHz, up to 3.8 GHz, 8 MB) *</p> <p>Intel® Xeon® processor E3-1225v5 (4 Cores / 4 Threads, 3.30 GHz, up to 3.7 GHz, 8 MB, Intel® HD Graphics P530) *</p> <p>Intel® Xeon® processor E3-1220v5 (4 Cores / 4 Threads, 3.00 GHz, up to 3.5 GHz, 8 MB) *</p> <p>Intel® vPro™ with all Intel® Xeon® processors No Intel® vPro™ technology with Intel® Core i5 and Core i7 processors *with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)</p>
Operating systems	
Operating system	<p>Windows 10 Pro</p> <p>Windows 8.1 Pro</p> <p>Windows 7 Professional 64-bit</p>
Operating system compatible	<p>Windows 10</p> <p>Windows 8.1</p> <p>Windows 7 Professional 32-bit</p> <p>Linux</p>
Operating system notes	<p>Certified for Red Hat® Enterprise Linux (pending)</p> <p>Certified for SUSE Enterprise Desktop (pending)</p> <p>Certified for SUSE Enterprise Server (pending)</p> <p>For some configurations third party drivers are currently not available or configuration restrictions may apply.</p>
Memory modules	<p>4 GB (1 module(s) 4 GB) DDR4, unbuffered, ECC, 2,133 MHz, UDIMM</p> <p>4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM</p> <p>8 GB (1 module(s) 8 GB) DDR4, unbuffered, ECC, 2,133 MHz, UDIMM</p> <p>8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM</p> <p>16 GB (1 module(s) 16 GB) DDR4, unbuffered, ECC, 2,133 MHz, UDIMM</p> <p>16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM</p>
Graphics	<p>Midrange 3D: NVIDIA® Quadro® K2200, 4 GB, 640 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort</p> <p>Midrange 3D: AMD FirePro™ W5100 , 4 GB, PCIe x16, 4 x DisplayPort</p> <p>Entry 3D: NVIDIA® Quadro® K1200, 4 GB, 384 cores, PCIe x16, 4x miniDP, 4x miniDP/DP Adapter</p> <p>Entry 3D: AMD FirePro™ W4100, 2 GB, 512 stream processors, PCIe x16, 4x miniDP, 4x miniDP/DP Adapter</p> <p>Entry 3D: NVIDIA® Quadro® K620, 2 GB, 384 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort</p> <p>Entry 3D: AMD FirePro™ W2100, 2 GB, 320 stream processors, PCIe x16, 2x DisplayPort</p> <p>Entry 3D: NVIDIA® Quadro® K420, 1 GB, 192 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort</p> <p>Professional 2D: NVIDIA® NVS™ 510, 2 GB, 16 cores, PCIe 2.0 x16, 4x miniDP, 4x miniDP/DP Adapter</p> <p>Professional 2D: NVIDIA® NVS™ 315, 1 GB, 48 cores, PCIe 2.0 x16, 1x LFH59 (max. 2x DP or 2x DVI-I)</p>

Hard disk drives (internal)	SSD PCIe 1x512 GB Highend card
	SSD PCIe 1x256 GB Highend card
	SSD PCIe 512 GB M.2 Highend
	SSD PCIe 256 GB M.2 Highend
	SSD PCIe 128 GB M.2 Highend
	SSD SATA III, 400 GB High Endurance, 2.5-inch
	SSD SATA III, 200 GB High Endurance, 2.5-inch
	SSD SATA III 256GB M.2 Mainstream
	SSD SATA III 128 GB M.2 Mainstream
	SSD SATA III, 1024 GB Mainstream, 2.5-inch
	SSD SATA III, 512 GB Mainstream, 2.5-inch
	SSD SATA III, 256 GB Mainstream, 2.5-inch
	SSD SATA III, 128 GB Mainstream, 2.5-inch
	SSD SATA III, 512 GB Mainstream, 2.5-inch, SED
	SSD SATA III, 256 GB Mainstream, 2.5-inch, SED
	SSD SATA III, 128 GB Mainstream, 2.5-inch, SED
	SSD SATA III, 128 GB Entry, 2.5-inch
	SSHD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
	SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch
	HDD SATA III, 7,200 rpm, 6,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 4,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2 TB, 2.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1 TB, 2.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1000 GB, 2.5-inch, enhanced availability
	HDD SATA III, 7,200 rpm, 500 GB, 2.5-inch, enhanced availability
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch
HDD SATA II, 5,400 rpm, 500 GB, 2.5-inch*	
Hard disk notes	<p>One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.</p> <p>24/7 ready (business critical HDDs required)</p> <p>Up to 20 GB of HDD space is reserved for system recovery</p> <p>SSHD (Solid State Hard Disk, Hybrid drive)</p> <p>SED (Self-Encrypting Drive)</p> <p>SSD (Solid State Disk)</p>
Drives (optional)	BD Triple Writer SATA ultra slim (tray)
	DVD Super Multi ultra slim (tray)
	MultiCard Reader 24in1 USB 2.0 3.5"
Interface add on cards/components (optional)	WLAN 802.11ac (2x2) PCIe x1 FH and Bluetooth 4.1 (dedicated regions only)
	WLAN 802.11ac (2x2) PCIe x1 FH (dedicated regions only)
	Parallel Interface
	Gigabit Ethernet PCIe x1, DS
	eSATA Interface
	Dual serial card PCIe x1
Riser Cards	1 x PCI-Express 3.0 x16, Full height (174 mm / 6.85 inch) ; 1 x PCI-Express 3.0 x4 (mech. x16), Full height (174 mm / 6.85 inch)
	1 x PCI-Express 3.0 x16, Full height (174 mm / 6.85 inch) ; 1 x PCI, Full height (174 mm / 6.85 inch)
Base unit	CELSIUS J550

Mainboard

Mainboard type	D3427
Formfactor	proprietary
Chipset	Intel® C236
Processor socket	LGA 1151
Processor quantity maximum	1
Supported capacity RAM (max.)	64 GB
Memory slots	4 DIMM (DDR4) ECC/non-ECC
Memory frequency	2,133 MHz
Memory notes	Dual channel support For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same.
LAN	10/100/1,000 MBit/s Intel® I219LM
BIOS version	AMI Aptio V
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI) CSM (Compatibility Support Module)
Audio type	On board
Audio codec	Realtek ALC671
Audio features	Internal speaker supports audio playback (optional), High Definition audio, 5.1 surround sound

I/O controller on board

Serial ATA total	5
thereof SATA III	5
thereof eSATA	2 (optional)
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI RAID 0/1/5/10

Interfaces

Audio: line-in	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
Internal speakers	1
USB 2.0 total	2
USB 3.0 total	9
USB front	2x USB 3.0
USB rear	6x USB 3.0
USB internal	2x USB 2.0 + 1x USB 3.0
DisplayPort	2
DVI	1 (DVI-D)
Serial (RS-232)	1 ; optional: 2nd serial port (9pin, 16 byte FIFO, 16550 compatible)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	1 (optional) (25pin with EPP and ECP)
eSATA	1 (optional)
Interface Module notes	Anytime USB charge functionality

Input device / components

Input devices (optional)	Keyboard Mouse KBPC PX ECO Mouse M440 ECO Space Explorer USB
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Drive bays

3.5-inch internal bays	1
3.5-inch external bays	1
5.25-inch external bays	1
Drive bay notes	5.25" bay: for slim optical disc drive only; internal 3.5" bay: 1x 3.5" drive (screwless) or 1x 2.5" drive (screws) or optional via adapter for 1x or 2x 2.5" drives (screws); external 3.5" bay: optional as internal 3.5" bay (screws)
M.2-2280	1 x on mainboard (for PCIe or SATA SSD modules)

Graphics on board

Graphics brand name	Intel® HD Graphics P530, Intel® HD Graphics 530
Shared video memory	up to 1,782 MB
TFT resolution (DVI)	1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel 1,920 x 1,200 pixel
TFT resolution (DisplayPort)	1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel 1,920 x 1,200 pixel 2,560 x 1,440 pixel 2,560 x 1,600 pixel 3,840 x 2,160 pixel 4,096 x 2,304 pixel
Graphics features	Support for up to three independent displays DirectX® 12 HDCP support OpenCL™ 2.0 (requires Intel® Core™ i3, i5 or i7 processors) OpenGL® 4.4 One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter For multi monitoring mode, graphics card and integrated graphics run in parallel DisplayPort interface supports Ver. 1.2 incl. Multi-Stream DVI-D interface supports audio output for HDMI monitors
Graphics notes	up to 1 GB dedicated video memory (main memory owned and locked for graphics use) 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; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%
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	280 W
Power factor correction/active power	active

Noise for standard configuration (HDD, ODD)

Noise emission	According to ISO9296
Related Processors for noise	tbd
Standard noise emission	4x8 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A-weighted sound power level LwAd (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) (depending on configuration)

Noise for standard configuration (HDD, ODD)Standard noise operation mode: CPU
50% load tbdStandard noise operation mode: CPU
90% load tbdStandard noise operation mode: HDD
load tbdStandard noise operation mode: Idle
mode tbdStandard noise operation mode: ODD
load tbdStandard noise operation mode: Office
applications 2.0 tbdBlue angel noise emission according
certification According to ISO 7779:2010, ECMA-74
for max. possible configurationBlue angel noise notes / description A-weighted sound power level L_{wad} (in B); 1B = 10dBBlue angel noise operation mode: HDD
load tbdBlue angel noise operation mode: Idle
mode tbdBlue angel noise operation mode: ODD
load tbd**Dimensions / Weight / Environmental**Dimensions (W x D x H) 332 x 338 x 89 mm
12.68 x 13.31 x 3.51 inch

Operating position horizontal / vertical (optional, feet needed)

Weight approx. 9 kg

Weight (lbs) approx. 19.84 lbs

Weight notes Actual weight may vary depending on configuration

Operating ambient temperature 10 - 35 °C (50 - 95 °F)

Operating relative humidity 5 - 85 % (relative humidity)

Compliance

Product CELSIUS J550

Model DTF

Germany GS (planned)

Europe CE

USA/Canada FCC Class B
cCSAusGlobal RoHS (Restriction of hazardous substances)
WEEE (Waste electrical and electronic equipment)
Microsoft Operating Systems (HCT / HCL entry / WHQL)
EPEAT® Gold (dedicated regions) (planned)
ENERGY STAR® 6.1 (dedicated regions)China CCC (planned)
China RoHSCompliance link <http://globalsp.ts.fujitsu.com/sites/certificates>**Additional Software**Additional software (preinstalled) Workplace Protect (secure authentication solution)
Adobe® Reader® (pdf reader)
McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version)
Win7: Fujitsu Recovery (hard disk based recovery)
Win8: Microsoft Push Button Recovery (hard disk based recovery)
Microsoft Office (buy license to activate the pre-installed Microsoft Office)

Additional Software

Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™) CyberLink PowerDVD DVD (playback software for DVD) Nero Essentials XL
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Security

Physical Security	Kensington Lock support Eye for padlock Integrated cabinet lock (optional)
System and BIOS Security	Embedded security (TPM 1.2) EraseDisk (optional) Boot sector virus protection Write protect option for the Flash EPROM Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)
Workplace Embedded Tools	Auto BIOS Update via Fujitsu Server Auto BIOS Update via customer server (optional) Easy PC Protection (optional) Easy Restore (optional)

Manageability

Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) WoL (Wake on LAN) iAMT 11.0 (depending on processor)
Manageability software	DeskView Client DeskView Instant BIOS Management
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 WoL (Wake on LAN)
Supported standards	DMI (Desktop Management Interface) SMBIOS (System Management BIOS) PXE (Preboot Execution Environment) WMI (Windows Management Instrumentation) WBEM (Web Based Enterprise Management) CIM (Common Information Model)
Manageability link	http://www.fujitsu.com/fts/manageability

Miscellaneous

Keyboard on (Special Fujitsu keyboard required)
Thermal management
Extended lifetime 24/7 (limited configurations)

Packaging information

Packaging dimension (mm)	467 x 265 x 540 mm
Packaging dimension (inch)	18.39 x 10.43 x 21.26 inch
Max. quantity / pallet	28
Material - Weight (g) Carton	1180 g
Material - Weight (lbs) Carton	2.6 lbs

Packaging information

Material - Weight (g) EPS / PS	180 g
Material - Weight (lbs) EPS / PS	0.4 lbs
Material - Weight (g) PE	60 g
Material - Weight (lbs) PE	0.13 lbs
Packaging notes	printed user documentation is bleached in chlorine free process

Warranty

Warranty period	3 years (depending on country)
Warranty type	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 3 years material warranty)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty

Product Support Services - the perfect extension

Recommended Service	9x5, Onsite 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

<p>Display P24W-7 LED</p> 	<p>If you're a pixel, color and performance-hungry professional using demanding applications, the FUJITSU P24W-7 LED Display is the perfect choice. The display provides outstanding picture performance thanks to a cutting-edge graphic panel. It also boasts unique and innovative features such as our patent-applied Presence Sensor technology and the Always Available Powered USB Hub.</p>	<p>Order Code: S26361-K1498-V140</p>
<p>Display P27T-7 UHD</p> 	<p>For pixel, color and performance-hungry professionals using demanding applications, look no further than the FUJITSU P27T-7 UHD Display. It provides outstanding picture quality with Ultra High Definition (UHD) resolution, also known as 4k. Picture in Picture (PiP), unrivalled ergonomics, a multitude of UHD supporting interfaces and manageability make this the perfect choice.</p>	<p>Order Code: S26361-K1564-V140</p>
<p>Blue LED Mouse GL9000</p> 	<p>Blue LED Mouse GL9000 comes in a slim design with proven Fujitsu engineering quality. The state-of-the-art blue LED sensor enables ultra precise switchable resolution at 1,000, 1,500 and 2,000 dpi. Blue LED Mouse GL9000 makes your life easier because it's tailor-made for right handed users. It just feels great in your hand.</p>	<p>Order Code: S26381-K438-L100</p>
<p>SpaceMouse™ Pro</p> 	<p>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 edit.</p>	<p>Order Code: S26381-K459-L100</p>
<p>Keyboard KB900</p> 	<p>The KB900 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB900 the ideal input device for any PC or Notebook user. If you accidentally spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.</p>	<p>S26381-K560-L4** (**: Country specific variation)</p>

More information

Fujitsu OPTIMIZATION Services

In addition to the FUJITSU Workstation CELSIUS J550, 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/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about the FUJITSU Workstation CELSIUS J550, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/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 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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