

## CELSIUS® R630

### The most powerful workstation



CELSIUS workstations are equipped with the very latest technology and system components to deliver high-end performance. They are the ideal hardware choice for business segments like CAD, CAE, mechanical design, simulation, virtual reality, visualization, digital content creation, and finance. CELSIUS workstations are certified for a huge variety of software applications. The ISV certification process enables workstation users to run their preferred applications with the best possible performance and maximum system stability. If you need more performance and more expandability than a single processor workstation can offer, choose the high-end workstation CELSIUS R630.

#### Performance

- Latest processor technology, max. 2 Intel® Xeon™ processors up to 3.6 GHz with Intel® EM64T technology and Hyper-Threading technology
- Max. 16 GB DDR2 SDRAM for memory-demanding applications
- PCI-Express X16 to accommodate even the most powerful graphics subsystems
- PCI/X for high speed I/O
- Dual channel SCSI controller with fast rotating hard disk drives for high speed storage access
- RAID (0) support for SCSI and S-ATA disks to enhance storage speed

#### Reliability

- System development and manufacturing in Germany according to highest standards of quality, reliability and stability
- Features to enhance reliability, like ECC memory and RAID (1) to support mission critical applications
- Choice of supply for on-time and tailored delivery: value4you, made4you
- Warranty, service, and spare part supply to suit customer's individual needs
- Certification of all relevant workstation applications to ensure ISV support
- Certification for Linux (RedHat and SuSE) on request

#### Manageability

- Easy and remote administration with DeskView client management
- Microsoft Windows XP Professional optionally preinstalled,
- Service friendly cabinet and easy component access lead to reduced system downtimes and easy maintenance (EasyChange and FlexyBay)
- ManagetIT: software suite for easy integration into existing IT environments

#### Ergonomics

- Convenient front access to USB, audio, and FireWire
- Optimized cooling to ensure lowest possible noise emission
- Specially tuned graphics drivers for best image quality and performance

#### Security

- Secure access and protection for business critical data
- Integrated SmartCard reader optional
- SecureIT: software suite for easy integration into existing IT environments

System		CELSIUS R630
<b>Operating Systems</b>		
Windows XP Professional	optional	
<b>Fujitsu Siemens Computers recommends Microsoft® Windows® XP Professional for business.</b>		
<b>Mainboard D1691</b>		
Microprocessor		max. 2 Intel Xeon processors, max. 3.60 GHz, with Extended Memory 64 Technology and Hyper-Threading technology
Front Side Bus		800
Second-level cache		1 MB
Memory <sup>1)</sup>		max. 16 GB <sup>2)</sup> DDR2 SDRAM, ECC, DDR2-400, dual-channel
DIMM slots		8
Chipset		Intel E7525
Flash EEPROM		BIOS update by software
<b>Interfaces</b>		
Serial		1 x 9-pin, RS232
Parallel		1 x 25 pin, EPP and ECP
Keyboard, mouse		2 x PS/2
USB 2.0		4 x rear, 2 x front
LAN		1 x RJ-45
FireWire (IEEE1394)		1 x front, 1 x rear
Front audio		1 x headphone out, 1 x mic in
Rear audio		1 x line in, 1 x line out, 1 x mic in, 1 x S/PDIF
<b>I/O controller (on board)</b>		
Fast IDE / Ultra DMA-100		2 x for max. 4 ATA drives
Serial ATA interfaces		2 x for max. 2 HDDs, Host RAID 0 / 1 support
SCSI controller		Adaptec 29320, dual-channel Host RAID 0 / 1 support
<b>LAN</b>		
		Broadcom BCM5751, 10/100/1000 Mbit/s, ASF 2.0
<b>Audio (on board)</b>		
		Analog devices AD1981B (AC 97)
<b>Graphics subsystems</b>		
<b>Professional 2D:</b>		
Nvidia Quadro NVS 280		64 MB, PCI-Express, 2 x DVI-I
<b>Multi monitor 2D:</b>		
Nvidia Quadro NVS 280		64 MB, PCI-Express, 2 x DVI-I
Nvidia Quadro NVS 280		64 MB, PCI, 2 x DVI-I
<b>Entry-level 3D:</b>		
TBD		64 MB, PCI-Express, 2 x DVI-I
<b>Mid-range 3D:</b>		
ATI Fire GL V3250		256 MB, PCI-Express, stereo 2 x DVI-I
Nvidia Quadro FX 1300		128 MB, PCI-Express, stereo 2 x DVI-I
<b>High-End 3D:</b>		
Nvidia Quadro FX 3400		256 MB, PCI-Express, stereo, 1 x dual link DVI-I, 1 x DVI
<b>Ultra-High-End 3D:</b>		
TBD		512 MB, PCI-Express, stereo, genlock, 2 x dual link DVI-I
<b>Floppy disk drive</b>		
		3.5-inch, 1.44 MB

<b>Hard disk drives<sup>2)</sup></b>	
Ultra DMA 100	160 GB, 7200 min <sup>-1</sup>
Serial ATA	80 GB – 160 GB, 7200 min <sup>-1</sup>
SCSI U320	36 GB – 147 GB, 10000 min <sup>-1</sup> 36 GB – 73 GB, 15000 min <sup>-1</sup>
<b>Optical drives</b>	
ATAPI DVD	16/48-speed
ATAPI CD RW/DVD combo	48/16/48/16-speed
ATAPI DVD+R/+RW	4/4/10/16/12/40-speed
<b>Mouse</b>	
optional	wheel mouse optical wheel mouse, SpaceMouse
<b>Slots</b>	
	6 (max. 350 mm) 1 x PCI-Express x16, 2 x PCI (32-bit / 33 MHz) 1 x PCI-X (64-bit / 133 MHz), 2 x PCI-X (64-bit / 100 MHz)
<b>Drive bays</b>	
Internal	4 x 3.5 inch (HDD)
External	1 x 3.5 inch (FDD) 3 x 5.25 inch (ODD)
<b>Electrical values</b>	
Power supply	560 W, 100-240 V, 50-60 Hz
Typical power consumption	250 W <sup>3)</sup>
<b>Temperature/noise/dimensions/weight</b>	
Ambient temperature	10-35° C acc. to IEC 721
Relative humidity	20-80% acc. to IEC 721
Dimensions (H x W x D)	445 x 205 x 560 mm
Weight	20 kg <sup>3)</sup>
<b>Compliance with standards</b>	
Product safety	IEC60950, UL60950, CSA22.2-60950
Ergonomics	GS EK1-ITB2001, TCO03
Electromagnetic compatibility	EN55022 / CISPR22, EN5524 / CISPR24, EN61000-3-2/-3, IEC60601-1-2, FCC class A, CSA C108.8
CE mark	89/336/EEC (EMI), 73/23/EEC (product safety)
<b>Security features</b>	
Cabinet security features	intrusion detection, antitheft function, seal option, Kensington lock support, SmartCard reader optional
BIOS security features	write protection for EEPROM, boot protection for FDD, system and setup password, password and disabling functions for many system components
<b>Software</b>	
Drivers and Utility CD (DUCD)	included
DeskView Desktop Management on DU-CD	
F-Secure virus scanner	on DU-CD
Linux (RedHat, SuSE)	
certification	on request

<sup>1)</sup> In case of using a 32-bit operating system 4 GB or higher physical memory configurations may show only ~3.4 GB addressable memory (depending on system configuration)

<sup>2)</sup> 1 GB equals one billion bytes, when referring to hard disk drive capacity; accessible capacity may vary, also depending on used software and tools.

<sup>3)</sup> Depending on configuration

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