Fujitsu recommends Windows.

## Data Sheet FUJITSU CELSIUS R940 Workstation

### Breaking all Barriers

Fujitsu's CELSIUS R940 is designed to surpass all your expectations. Achieving first-class benchmark results, this reliable, high-end dual processor workstation is individually configurable and optimized for extremely demanding and memory intensive multi-threaded applications in a 24/7 operating environment. CELSIUS workstations offer you an "IT made in Germany" quality – from design to production – in which you can trust.

### Unleash the power

Achieve the optimum out of any demanding application

Intel® Xeon® processor E5-2600 v3 family up to 2 x 18 cores, support of up to 1024 GB of DDR4 memory, SAS RAID controller as well as a Fujitsu SSD PCIe card (up to 2x 512 GB)

### Maximum expandability

Broad selection and configurability options

Broad choice of high-end professional graphic cards from AMD and Nvidia (up to three ultra-highend or four mid-range graphic cards) and support for eight hard disk drives

### Work around the clock

High product reliability supports a 24/7 working environment

Selection of top-quality components and comprehensive testing in certified in-house laboratories

### Made in Germany

Design, engineering, product management, support and production - located at the Augsburg factory in Germany

 Optimized air flow and dedicated triple "Air Tunnel" flow results in reduced noise emissions even under full system load

### Comprehensive ISV certifications

Full support for ISV applications and easy integration into existing IT environments Maximum compatibility and performance with customer-preferred applications









# FUJITSU

### Components

Processor	Intel® Xeon® processor E5-2699v3 (18 cores, 2.30 GHz, 45 MB)		
	Intel <sup>®</sup> Xeon <sup>®</sup> processor E5-2697v3 (14 cores, 2.60 GHz, 35 MB)		
	Intel® Xeon® processor E5-2690v3 (12 cores, 2.60 GHz, 30 MB)		
	Intel <sup>®</sup> Xeon <sup>®</sup> processor E5-2687Wv3 (10 Cores, 3.10 GHz, 25 MB)		
	Intel <sup>®</sup> Xeon <sup>®</sup> processor E5-2680v3 (12 cores, 2.5	50 GHz, 30 MB)	
	Intel <sup>®</sup> Xeon <sup>®</sup> processor E5-2670v3 (12 cores, 2.3	30 GHz, 30 MB)	
	Intel® Xeon® processor E5-2667v3 (8 Cores, 3.20	) GHz, 20 MB)	
	Intel® Xeon® processor E5-2660v3 (10 Cores, 2.60 GHz, 25 MB)		
	Intel® Xeon® processor E5-2650v3 (10 Cores, 2.30 GHz, 25 MB)		
	Intel® Xeon® processor E5-2643v3 (6 Cores, 3.40 GHz, 20 MB)		
	Intel® Xeon® processor E5-2640v3 (8 Cores, 2.60 GHz, 20 MB)		
	Intel® Xeon® processor E5-2637v3 (4 Cores, 3.50 GHz, 15 MB)		
	Intel <sup>®</sup> Xeon <sup>®</sup> processor E5-2630v3 (8 Cores, 2.40 GHz, 20 MB)		
	Intel <sup>®</sup> Xeon <sup>®</sup> processor E5-2623v3 (4 Cores, 3.00 GHz, 10 MB)		
	Intel <sup>®</sup> Xeon <sup>®</sup> processor E5-2620v3 (6 Cores, 2.40	) GHz, 15 MB)	
	Intel <sup>®</sup> Xeon <sup>®</sup> processor E5-2609v3 (6 Cores, 1.90	) GHz, 15 MB)	
	Intel® Xeon® processor E5-2603v3 (6 Cores, 1.60	) GHz, 15 MB)	
Operating systems			
Operating system	Windows 8.1 Pro 64-bit	Windows 8.1 Pro 64-bit	
operating system	Windows 7 Professional 64-bit	Windows 7 Professional 64-bit	
Operating system compatible	Windows <sup>®</sup> Server 2012	Windows <sup>®</sup> Server 2012	
- F	Linux	Linux	
Operating system notes	Certified for Red Hat© Enterprise Linux	Certified for Red Hat© Enterprise Linux	
	Certified for SUSE Enterprise Desktop	Certified for SUSE Enterprise Desktop	
	Certified for SUSE Enterprise Server	Certified for SUSE Enterprise Server	
Memory modules	4 GB (1 module(s) 4 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133		
	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133		
	16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133		
	32 GB (1 module(s) 32 GB) DDR4, registered, EC	C, 2,133 MHz, PC4-2133	
Graphics	Ultra-high-end 3D: NVIDIA® Quadro® M6000, 12 GB, 2,880 cores, PCIe x16, 1x Dual Link DVI-I, 4 x DisplayPort		
	Ultra-high-end 3D: AMD FirePro™ W9100, 16 GB, 2816 stream processors, PCIe x16, 6x miniDP, 6x miniDP/DP Adapter		
	Ultra-high-end 3D: NVIDIA® Quadro® K6000, 12 GB, 2,010 steam picessors, Fele x16, 0x minibi , 0x minibi / 04 high-end 3D: NVIDIA® Quadro® K6000, 12 GB, 2,880 cores, PCIe x16, 1x Dual Link DVI-I, 1x Dual Link DVI-D, 2x		
	DisplayPort		
	Ultra-high-end 3D: NVIDIA® Quadro® K5200, 8 GB, 2304 cores, PCIe x16, 1x Dual Link DVI-I, DVI-D, 2x DisplayPort		
	High-end 3D: AMD FirePro™ W7100, 8 GB, PCIe x16, 4 x DisplayPort		
	High-end 3D: NVIDIA® Quadro® M4000, 6 GB, 1344 cores, PCIe x16, 1x Dual Link DVI-I, 4 x DisplayPort		
	High-end 3D: NVIDIA® Quadro® K4200, 4 GB, 1344 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort		
	Midrange 3D: NVIDIA® Quadro® K2200, 4 GB, 640 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort		
	Midrange 3D: AMD FirePro™ W5100, 4 GB, PCIe x16, 4 x DisplayPort		
	Entry 3D: AMD FirePro™ W4100, 2 GB, 512 stream processors, PCIe x16, 4x miniDP, 4x miniDP/DP Adapter		
	Entry 3D: NVIDIA® Quadro® K620, 2 GB, 384 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort		
	Entry 3D: AMD FirePro™ W2100, 2 GB, 320 stream processors, PCIe x16, 2x DisplayPort		
	Entry 3D: NVIDIA® Quadro® K420, 1 GB, 192 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort		
	Professional 2D: NVIDIA <sup>®</sup> NVS <sup>™</sup> 510, 2 GB, 16 cores, PCIe 2.0 x16, 4x miniDP, 4x miniDP/DP Adapter		
	Professional 2D: NVIDIA <sup>®</sup> NVS™ 315, 1 GB, 48 cores, PCIe 2.0 x16, 2x LFH59 (DP/DVI-I)		
	GPU computing card: NVIDIA® GRID™ K1 16GB A, 16 GB, 768 cores, PCIe x16		
	GPU computing card: NVIDIA <sup>®</sup> GRID <sup>™</sup> K2 8GB A, 8 GB, 3,072 cores, PCIe x16		
	Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP		
	Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP		
		, , , -,	

Personal Supercomputing	Coprocessor: NVIDIA® Tesla® K40, 12 GB, 2,496 cores, PCIe x16	
	Coprocessor: NVIDIA® Tesla® K80, 2x 12 GB, 2,496 cores, PCIe x16	
	Coprocessor: Intel® Xeon Phi™ Coprocessor 3120A, PCIe x16	
	Coprocessor: Intel® Xeon Phi™ Coprocessor 5110P, PCIe x16	
Hard disk drives (internal)	SSD PCIe 2x512GB Highend card	
	SSD PCIe 1x512GB Highend card	
	SSD PCIe 2x256GB Highend card	
	SSD PCIe 1x256GB Highend card	
	SSD SATA III, 400 GB High Endurance bay, 2.5-inch	
	SSD SATA III, 200 GB High Endurance bay, 2.5-inch	
	SSD SATA III, 400 GB High Endurance, 2.5-inch	
	SSD SATA III, 200 GB High Endurance, 2.5-inch	
	SSD SATA III Premium, 512 GB, 2.5-inch	
	SSD SATA III Premium, 256 GB, 2.5-inch	
	SSD SATA III Premium, 128 GB, 2.5-inch	
	SSD SATA III, 256 GB, 2.5-inch	
	SSD SATA III, 128 GB, 2.5-inch	
	SSD SATA III, 256 GB, 2.5-inch, SED bay	
	SSD SATA III, 128 GB, 2.5-inch, SED bay	
	SSD SATA III, 720 GD, 2.5-Inch SSD SATA III Premium, 512 GB, 2.5-inch	
	SSD SATA III Premium, 256 GB, 2.5-inch	
	SSD SATA III Premium, 128 GB, 2.5-inch	
	SSD SATA III, 256 GB, 2.5-inch	
	SSD SATA III, 128 GB, 2.5-inch	
	SSHD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch	
	HDD SAS, 15,000 rpm, 600 GB, 2.5-inch	
	HDD SAS, 15,000 rpm, 300 GB, 2.5-inch	
	HDD SAS, 10,000 rpm, 1200 GB, 2.5-inch	
	HDD SAS, 10,000 rpm, 900 GB, 2.5-inch	
	HDD SAS, 10,000 rpm, 600 GB, 2.5-inch	
	HDD SAS, 10,000 rpm, 300 GB, 2.5-inch	
	HDD SATA III, 10,000 rpm, 1,000 GB, 2.5-inch, business critical	
	HDD SATA III, 10,000 rpm, 500 GB, 2.5-inch, business critical	
	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, 3,000 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	
Hard disk notes	*Disk imaging software of the customer must be 4k sector size / advanced format ready One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.	
	24/7 ready (business critical HDDs required)	
Drives (optional)	BD Triple Writer SATA slim (tray)	
(option)	DVD-ROM	
	DVD Super Multi	
	DVD Super Multi ultra slim	
	UVU NUDEL MUITI UITTA SUM	

SCSI / SAS Controller	RAID 5/6 Ctrl. 12 Gbit/s 8 ports int.		
	RAID 0/1 Ctrl. 12 Gbit/s 8 ports int.		
	RAID 0/1 Ctrl. 6 Gbit/s 8 ports int.		
Interface add on cards/components			
(optional)			
	WLAN 802.11 ac (2x2) PCIe		
	WLAN 802.11ac (2x2) and Bluetooth 4.1 PCIe x1 FH (dedicated regions only)		
	WLAN 802.11 a/g/n (2x2), (dedicated regions only, not for Indonesia)		
	Gigabit Ethernet PCIe x1, DS		
	eSATA Interface		
	Dual serial card PCIe x1		
	Dual 10 Gigabit Ethernet PCIe x8		
Base unit	CELSIUS R940 CELSIUS R940 power		
Mainboard			
Mainboard type	D3358		
Formfactor	proprietary		
Chipset	Intel® C612		
Processor socket	Socket R3		
Processor type support	Intel® Xeon® processor E5-2600 v3 product family-based platform		
Processor quantity maximum	2		
Memory slots	16 (8 per processor) DIMM (DDR4) ECC		
Supported capacity RAM (max.)	512 GB		
LAN	Built-in 10/100/1,000 MBit/s Intel® I217LM and Intel® I210		
BIOS version	AMI Aptio V		
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)		
Audio type	On board		
Audio codec	Realtek ALC671		
Audio features	High Definition Audio		
I/O controller on board			
Serial ATA total	10		
thereof SATA III	10		
Controller functions	Serial ATA III (6 Gbit) AHCI RAID 0/1/5/10		
Interfaces			
Audio: in (rear)	1		
Audio: out (rear)	1		
Audio: in	1		
Audio: out	1		
Internal speakers	1		
USB 2.0 total	9		
USB 3.0 total	4		
USB front	4 (2x USB 3.0)		
USB rear	6		
USB internal	3, thereof 1 type A		
Ethernet (RJ-45)	2		
Interface Module notes	Anytime USB charge functionality		
Input device / components			
- Province	Optical USB wheel mouse		

Input device / components			
Input devices (optional)	Keyboard		
	Optical USB tilt wheel mouse		
	Optical USB wheel mouse		
Drive bays			
Drive bays total	12		
2.5-inch internal bays	8		
3.5-inch internal bays	4		
3.5-inch external bays	2		
5.25-inch external bays	1		
Drive bay notes	Up to 8x 2.5-inch HDDs (cold plug) and 1x 2.5-inch SSD or		
	Up to 4x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSD or		
	Up to 2x 2.5-inch and 2x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSD		
Slots			
PCI-Express 3.0 x8	1 x (200 mm) Full height		
PCI-Express 3.0 x16	4 x (340 mm / 13.39 inch) Full height (2x PCIe 3.0x16 per p	processor)	
PCI-Express 2.0 x4 (mech. x16)	1 x (340 mm / 13.39 inch) Full height		
PCI-Express 2.0 x1 (mech. x8)	1 x (340 mm / 13.39 inch) Full height		
PCI-Express 3.0 x8 (internal)	1 x (170 mm / 6.69 inch) Full height (available with 2nd CF	PU)	
Electrical values			
Power consumption note	500 W depending on configuration	675 W depending on configuration	
Rated voltage range	100 V - 240 V	100 V - 240 V	
Rated frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz	
Operating voltage range	90 V - 264 V	90 V - 264 V	
Operating line frequency range	47 Hz - 63 Hz	47 Hz - 63 Hz	
Max. output of single power supply	1000 W up to 90% efficiency	1350 W up to 90% efficiency	
Power factor correction/active power	active	active	
Power supply output	2 graphics power rails (8pin connector / 18.5A@12V)	3 graphics power rails (8pin connector / 18.5A@12V)	
Noise for standard configuration (HDD,	ODD, FDD)		
Related Processors for noise	Intel® Xeon® E5-2643v3 w/ NVIDIA® Quadro® K2200	Intel® Xeon® E5-2643v3 w/ NVIDIA® Quadro® K2200	
Standard noise emission	8x4 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74	8x4 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))	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))	
Standard noise operation mode: CPU 50% load	4.0 B / 23 dB(A) Bystander position	4.0 B / 23 dB(A) Bystander position	
Standard noise operation mode: CPU 90% load	4.4 B / 26 dB(A) Bystander position	4.3 B / 26 dB(A) Bystander position	
Standard noise operation mode: HDD load	3.9 B / 23 dB(A) Bystander position	4.0 B / 23 dB(A) Bystander position	
Standard noise operation mode: Idle mode	3.8 B / 22 dB(A) Bystander position	3.9 B / 22 dB(A) Bystander position	
Standard noise operation mode: ODD	4.6 B / 29 dB(A) Bystander position	4.6 B / 29 dB(A) Bystander position	
Standard noise operation mode: Office applications 2.0	3.8 B / 22 dB(A) Bystander position	3.9 B / 22 dB(A) Bystander position	
••			
Dimensions / Weight / Environmental Dimensions (W x D x H)	186 x 618 x 430 mm		
Operating position	Vertical / horizontal		
Weight	20 kg		
Weight notes	ZU Kg Actual weight may vary depending on configuration		
Operating ambient temperature	10 - 35 °C (50 - 95 °F)		
Operating relative humidity	5 - 85 % (relative humidity)		
speroring relative nonnairy			

Compliance			
Product	CELSIUS R940 CELSIUS R940 Pow	/er	
Model	ETNA_L-D3358		
Germany	GS depending on configuration		
Еигоре	CE		
USA/Canada	FCC Class B cCSAus		
Global	RoHS (EU & China) Microsoft Operating Systems (HCT / HCL entry / WHQL) WEEE (Waste electrical and electronic equipment) ENERGY STAR® 5.0 (dedicated regions) EPEAT® Silver (dedicated regions)		
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates		
Additional Software			
Additional software (preinstalled)	Workplace Protect (secure authentication solution) McAfee Multi Access Security (anti-virus and internet secur Microsoft Office (buy license to activate the pre-installed N		
Additional software (optional)	Drivers & Utilities DVD (DUDVD) Windows $^{\circ}$ 8 and Windows	® 7	
Security			
Physical Security	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)	
System and BIOS Security	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of all USB interfaces Trusted platform module (TPM 1.2) EraseDisk	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of all USB interfaces Trusted platform module (TPM 1.2) EraseDisk	
User Security	User and supervisor BIOS password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)	User and supervisor BIOS password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)	
Manageability			
Manageability technology	DeskUpdate Driver management iAMT 9.0 (depending on CPU)		
Manageability software	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform		
DeskView components	Inventory Management BIOS Management Driver Management Security Management Alarm Management		
Supported standards	WMI BootP (made4you) PXE WoL (Wake on LAN)		
Manageability link	http://www.fujitsu.com/fts/manageability		
Miscellaneous			
	Rack mountable (5U)	Rack mountable (5U)	
Spare part availability	5 years	5 years	
Packaging information	·	·	
Packaging dimension (mm)	394 x 730 x 578 mm		
Packaging dimension (inch)	15.51 x 28.74 x 22.76 inch		
Max. quantity / pallet	11	11	
mon quantity / panet	11	11	

Packaging information			
Packaging notes	printed user documentation is bleached in chlorine free process	printed user documentation is bleached in chlorine free process	
Warranty			
Warranty period	3 years (depending on country)		
Warrenty 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**

Display P24W-7 LED	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.	Order Code: S26361-K1498-V140
Display P27T-7 UHD	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.	Order Code: S26361-K1564-V140
Blue LED Mouse GL9000	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.	Order Code: S26381-K438-L100
SpaceMouse™ Pro	Using the SpaceMouse <sup>™</sup> 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 <sup>™</sup> 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.	Order Code: S26381-K459-L100
Keyboard KB900	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 accidently spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.	S26381-K560-L4** (**: Country specific variation)

### More information

### Fujitsu OPTIMIZATION Services

In addition to the FUJITSU CELSIUS R940, 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 CELSIUS R940, 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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