FUJITSU

Data Sheet
FUJITSU Workstation CELSIUS M740

Bring Your Ideas To Life

The CELSIUS M740 desktop workstation has been optimized to combat today's professional and technical challenges. The CELSIUS M740power is certified for Medical EMC standards IEC60601-1-2 to perform in healthcare environments. To round things off, a near-silent noise emission of 20 dB(A) allows you to work comfortably in the most quiet of working environments.

Perfomance you can count on
Spectrum of performance due to a wide range of professional grade features
■ Next generation Intel® Xeon® processors, high performing graphics subsystems, quad-channel memory technology and high-speed hard disk drives

"IT made in Germany"
From design to production – an "IT made in Germany" quality in which you can trust
■ Optimized thermal management and near-silent noise emission of 20 dB(A)

Stringent quality control
System stability through-out 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 256 GB DDR4 memory

intel XEON inside™

NVIDIA.

AMD FIREPRO

Components

Processor	Intel® Xeon® processor E5-2630v4 (10 Cores, 2.20 GHz, 25 MB)
	Intel® Xeon® processor E5-2603v4 (6 Cores, 1.70 GHz, 15 MB)
	Intel® Xeon® processor E5-1680v4 (8 Cores, 3.40 GHz, 20 MB)
	Intel® Xeon® processor E5-1660v4 (8 Cores, 3.20 GHz, 20 MB)
	Intel® Xeon® processor E5-1650v4 (6 Cores, 3.60 GHz, 15 MB)
	Intel® Xeon® processor E5-1650v3 (6 Cores, 3.50 GHz, 15 MB)
	Intel® Xeon® processor E5-1630v4 (4 Cores, 3.70 GHz, 10 MB)
	Intel® Xeon® processor E5-1630v3 (4 Cores, 3.70 GHz, 10 MB)
	Intel® Xeon® processor E5-1620v4 (4 Cores, 3.50 GHz, 10 MB)
	Intel® Xeon® processor E5-1620v3 (4 Cores, 3.50 GHz, 10 MB)
	Intel® Xeon® processor E5-1607v4 (4 Cores, 3.10 GHz, 10 MB)
	Intel® Xeon® processor E5-1603v4 (4 Cores, 2.80 GHz, 10 MB)

Operating systems	
Operating system	Windows 10 Pro Windows 8.1 Pro Windows 7 Professional 64-bit
Operating system compatible	Windows 8.1 Windows® Server 2012 Linux
Operating system notes	Certified for Red Hat© Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server

Memory modules	4 GB (1 module(s) 4 GB) DDR4, registered, ECC, 2,400 MHz
	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133
	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,400 MHz
	16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,400 MHz
	32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,400 MHz

Graphics	Ultra-high-end 3D: NVIDIA® Quadro® M6000, 12 GB, 3,072 cores, PCIe x16, 1x Dual Link DVI-I, 4 x DisplayPort, stereo, SLI
	Ultra-high-end 3D: NVIDIA® Quadro® M5000, 8 GB, 2304 cores, PCIe x16, 1x Dual Link DVI-I, 4 x DisplayPort
	High-end 3D: AMD FirePro™ W7100, 8 GB, PCIe x16, 4 x DisplayPort
	High-end 3D: NVIDIA® Quadro® M4000, 8 GB, 1344 cores, PCIe x16, 4 x DisplayPort
	High-end 3D: NVIDIA® Quadro® M2000, 4 GB, 1344 cores, PCIe x16, 4 x 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
	Midrange 3D: AMD FirePro™ W4300, 4 GB, 512 stream processors, PCIe x16, 4x miniDP, 4x miniDP/DP Adapter
	Entry 3D: NVIDIA® Quadro® K1200, 4 GB, 384 cores, PCIe x16, 4x miniDP, 4x miniDP/DP Adapter
	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® NVS™ 510, 2 GB, 16 cores, PCIe 2.0 x16, 4x miniDP, 4x miniDP/DP Adapter
	Professional 2D: NVIDIA® NVS™ 315, 1 GB, 48 cores, PCIe 2.0 x16, 1x LFH59 (max. 2x DP or 2x DVI-I)
	Professional 2D: NVIDIA® NVS™ 315 fanless, 1 GB, 48 cores, PCIe 2.0 x16, 1x LFH59 (max. 2x DP or 2x DVI-I)
	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

Hard disk drives (internal)	
	SSD PCIe 2x512 GB Highend card
	SSD PCIe 1x512 GB Highend card
	SSD PCIe 2x256 GB Highend card
	SSD PCIe 1x256 GB Highend card
	SSD SATA III, 480 GB High Endurance, 2.5-inch
	SSD SATA III, 240 GB High Endurance, 2.5-inch
	SSD SATA III, 1024 GB Mainstream, 2.5-inch
	SSD SATA III, 512 GB Mainstream, 2.5-inch, SED
	SSD SATA III Premium, 512 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, 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, 2,000 GB, 2.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1,000 GB, 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) Up to 20 GB of HDD space is reserved for system recovery SSHD (Solid State Hard Disk, Hybrid drive) SED (Self-Encrypting Drive) SSD (Solid State Disk)
Drives (optional)	BD Triple Writer SATA ultra slim (tray)
	DVD-ROM
	DVD Super Multi
	DVD Super Multi
	DVD Super Multi ultra slim (tray)
	MultiCard Reader 24in1 USB 2.0 3.5"
SCSI / SAS Controller	LSI RAID Ctrl SAS 6G 5/6 512MB (D2616) RAID 5/6 Ctrl. 12 Gbit/s 8 ports int.
	LSI RAID Ctrl SAS 6G 5/6 512MB (D2616) RAID 0/1 Ctrl. 12 Gbit/s 8 ports int.
	LSI RAID Ctrl SAS 6G 5/6 512MB (D2607-B) RAID 0/1 Ctrl. 6 Gbit/s 8 ports int.

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)
	Gigabit Ethernet PCIe x1, DS
	eSATA Interface
	Dual serial card PCIe x1
	Dual 10 Gigabit Ethernet PCIe x8

Base unit	CELSIUS M740

Mainboard

Mainboard type	D3348
Formfactor	ATX
Chipset	Intel® C612
Processor socket	Socket R3
Processor quantity maximum	1
Supported capacity RAM (max.)	256 GB
Memory slots	8 DIMM (DDR4) ECC
LAN	10/100/1,000 MBit/s Intel® I217LM
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)	1
Interface Module notes	Anytime USB charge functionality

Input device / components

	Optical USB tilt wheel mouse
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

Drive bays

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 x4 (mech. x8)	1 x (170 mm / 6.69 inch) Full height
PCI-Express 3.0 x4 (mech. x16)	1 x (340 mm / 13.39 inch) Full height
PCI-Express 3.0 x16	2 x (340 mm / 13.39 inch) Full height
PCI-Express 2.0 x4 (mech. x16)	1 x (340 mm / 13.39 inch) Full height
PCI-Express 2.0 x1 (mech. x8)	2 x (100 mm / 3.94 inch) Full height

Electrical values

Power consumption note	300 W depending on configuration
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	600 W up to 90% efficiency
Power factor correction/active power	active
Power supply output	1 graphics power rails (8pin connector / 18.5A@12V)

Noise for standard configuration (HDD, ODD)

Related Processors for noise	Intel® Xeon® E5-2687v3 w/ NVIDIA® NVS® 315
Standard noise emission	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))
Standard noise operation mode: CPU 50% load	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: CPU 90% load	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: HDD load	3.8 B / 22 dB(A) Bystander position
Standard noise operation mode: Idle mode	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: ODD load	4.5 B / 27 dB(A) Bystander position
Standard noise operation mode: Office applications 2.0	3.7 B / 21 dB(A) Bystander position

Dimensions / Weight / Environmental

Dimensions (W x D x H)	186 x 481 x 430 mm
	7.32 x 18.9 x 16.9 inch
Operating position	Vertical / horizontal
Weight	approx. 18 kg
Weight (lbs)	approx. 39.67 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35 ℃ (50 - 95 ℉)
Operating relative humidity	5 - 85 % (relative humidity)

Compliance

Product	CELSIUS M740
Model	ETNA_S-D3348
Germany	GS depending on configuration
Europe	CE
USA/Canada	FCC Class B cCSAus
Global	RoHS (EU & China) Microsoft Operating Systems (HCT / HCL entry / WHQL) WEEE (Waste electrical and electronic equipment) EPEAT® Silver (dedicated regions) ENERGY STAR® 5.0 (dedicated regions)
Taiwan	BSMI
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

Additional Software

Additional software (preinstalled)	McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) Microsoft Office (buy license to activate the pre-installed Microsoft Office)
Additional software (optional)	Drivers & Utilities DVD (DUDVD) Windows® 8 and Windows® 7

Security

Physical Security	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
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 Protect (secure authentication solution)

Manageability

Manageability technology	DeskUpdate Driver management iAMT 9.0 (depending on CPU) PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) WoL (Wake on LAN)
Manageability software	DeskView Client DeskView Instant BIOS Management
DeskView components	Inventory Management BIOS Management Driver Management Security Management Alarm Management
Supported standards	WMI (Windows Management Instrumentation) PXE (Preboot Execution Environment) DMI (Desktop Management Interface) SMBIOS (System Management BIOS) WBEM (Web Based Enterprise Management) CIM (Common Information Model)
Manageability link	http://www.fujitsu.com/fts/manageability

Miscellaneous

	Rack mountable (5U)
Spare part availability	5 years

Packaging information

Packaging dimension (mm)	397 x 597 x 597 mm	397 x 597 x 555 mm
Packaging dimension (inch)	15.63 x 23.5 x 23.5 inch	15.63 x 23.5 x 21.85 inch
Max. quantity / pallet	16	16
Packaging notes	597 mm	

Warranty

Warranty period	3 years (depending on country)
Warranty type	Bring-In / Onsite Service (for countries within region EMEIA, for all other countries depending on local regulations)
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

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™ 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.	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 Workstation CELSIUS M740, 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 M740, 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

Copyrights

Disclaimer

www.fujitsu.com/fts/CELSIUS