Fujitsu recommends Windows 10 Pro.

Data Sheet
FUJITSU Workstation CELSIUS M740

Bring Your Ideas To Life

At Fujitsu, we are proud of our engineering capabilities which allow us to optimize the CELSIUS M740 to combat today's professional and technical challenges with high-end components and support you to work comfortably in the most quiet of working environments thanks to its near-silent noise emission of 20 dB(A).

Perfomance you can count on
Spectrum of performance due to a wide range of professional grade features
- Intel® Xeon® processor E5-1600 v4 family (up to 3.70 GHz)
- Support of Windows 10 Pro
- Support of up to 256 GB of DDR4 memory
- The system will accomodate a total of 12 drive bays
- Fujitsu SSD PCIe card (up to 2 x 512 GB)

"IT made in Germany" and stringent quality control
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)
- In-house developed BIOS and mainboard
- High product standards thanks to top-quality components
- Comprehensive testing in certified in-house laboratories for 24/7 operation
- Full support for ISV applications and easy integration into existing IT environments

We are (VR) ready
Enjoy a fully immersive and real-time Virtual Reality experience with low latency at high frame rates
- Powered by the NVIDIA® Quadro® P4000, P5000 and P6000 VR-ready graphics cards

Components

Processor	Intel® Xeon® processor E5-2699v4 (22 cores, 2.20 GHz, 55 MB)
	Intel® Xeon® processor E5-2697v4 (18 cores, 2.30 GHz, 45 MB)
	Intel® Xeon® processor E5-2697Av4 (16 cores, 2.60 GHz, 40 MB)
	Intel® Xeon® processor E5-2690v4 (14 cores, 2.60 GHz, 35 MB)
	Intel® Xeon® processor E5-2687Wv4 (12 cores, 3.00 GHz, 30 MB)
	Intel® Xeon® processor E5-2680v4 (14 cores, 2.40 GHz, 35 MB)
	Intel® Xeon® processor E5-2667v4 (8 Cores, 3.20 GHz, 25 MB)
	Intel® Xeon® processor E5-2660v4 (14 cores, 2.00 GHz, 35 MB)
	Intel® Xeon® processor E5-2650v4 (12 cores, 2.20 GHz, 30 MB)
	Intel® Xeon® processor E5-2643v4 (6 Cores, 3.40 GHz, 20 MB)
	Intel® Xeon® processor E5-2640v4 (10 Cores, 2.40 GHz, 25 MB)
	Intel® Xeon® processor E5-2637v4 (4 Cores, 3.50 GHz, 15 MB)
	Intel® Xeon® processor E5-2630v4 (10 Cores, 2.20 GHz, 25 MB)
	Intel® Xeon® processor E5-2623v4 (4 Cores, 2.60 GHz, 10 MB)
	Intel® Xeon® processor E5-2620v4 (8 Cores, 2.10 GHz, 20 MB)
	Intel® Xeon® processor E5-2609v4 (8 Cores, 1.70 GHz, 20 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 E5-1660v3 (8 Cores, 3.00 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 E5-1607v4 (4 Cores, 3.10 GHz, 10 MB)
	Intel® Xeon® processor E5-1603v4 (4 Cores, 2.80 GHz, 10 MB)

Operating systems

Operating system pre-installed	Windows 10 Pro
	Windows 7 Professional (available through downgrade rights from Windows 10 Pro)
Operating system compatible	Windows 8.1 Pro 64-bit (available through downgrade rights from Windows 10 Pro)
	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, 2,400 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® P6000, 24 GB, PCIe x16, 1x Dual Link DVI-D, 4 x DisplayPort
	Ultra-high-end 3D: NVIDIA® Quadro® M6000, 24 GB, 3,072 cores, PCIe x16, 1x Dual Link DVI-I, 4 x DisplayPort, stereo, SLI
	Ultra-high-end 3D: NVIDIA® Quadro® P5000, 16 GB, PCIe x16, 1x Dual Link DVI-D, 4 x DisplayPort
	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® P4000, 8 GB, PCIe x16, 4 x DisplayPort
	High-end 3D: NVIDIA® Quadro® M4000, 8 GB, 1344 cores, PCIe x16, 4 x DisplayPort
	Midrange 3D: NVIDIA® Quadro® P2000, 5 GB, PCIe x16, 4 x DisplayPort
	Midrange 3D: NVIDIA® Quadro® M2000, 4 GB, 768 cores, PCIe x16, 4 x 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® P1000, 4 GB, PCIe x16, 4x miniDP
	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® P600, 2 GB, PCIe x16, 4x miniDP
	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® P400 , 2 GB, PCIe x16, 3x miniDP
	Entry 3D: NVIDIA® Quadro® K420, 2 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)
	Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP
	Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP
Personal Supercomputing	Coprocessor: NVIDIA® Tesla® K40, 12 GB, PCIe x16

Hard disk drives (internal)	
	PCIe-SSD, 2x 1024 GB M.2 NVMe Highend card
	PCIe-SSD, 2x 512 GB M.2 NVMe Highend card
	PCIe-SSD, 2x 256 GB M.2 NVMe Highend card
	PCIe-SSD, 1x1024 GB M.2 NVMe Highend card
	PCIe-SSD, 1x 512 GB M.2 NVMe Highend card
	PCIe-SSD, 1x 256 GB M.2 NVMe Highend card
	PCIe-SSD, 2x 1024 GB M.2 NVMe card
	PCIe-SSD, 2x 512 GB M.2 NVMe card
	PCIe-SSD, 2x 256 GB M.2 NVMe card
	PCIe-SSD, 1x 1024 GB M.2 NVMe card
	PCIe-SSD, 1x 512 GB M.2 NVMe card
	PCIe-SSD, 1x 256 GB M.2 NVMe 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, 2.5-inch
	SSD SATA III, 512 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch
	SSD SATA III, 512 GB, 2.5-inch, SED
	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, 1800 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 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, 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 or SAS HDDs or High Endurance SSDs 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 ultra slim (tray)
	MultiCard Reader 24in1 USB 2.0 3.5"
SCSI / SAS Controller	LSI RAID Ctrl SAS 1GB (D3216) RAID 5/6 Ctrl. 12 Gbit/s 8 ports int.
	LSI RAID Ctrl SAS (D3327) RAID 0/1 Ctrl. 12 Gbit/s 8 ports int.

Interface add on cards/components (optional)

	WLAN 802.11ac (2x2) PCIe x1 FH and BT 4.1 (dedicated regions only, up to BT 4.2 depending on OS version)
	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 (S26361-K1447-V355)	CELSIUS M740power (S26361-K1447-V455)

Mainboard

Mainboard type	D3348-A2x
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 3.1 Gen1 (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	500 W depending on configuration
Power efficiency note		
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	600 W up to 90% efficiency	1000 W up to 90% efficiency
Power factor correction/active power	active	active
Power supply output	1 graphics power rails (8pin connector / 18.5A@12V)	2 graphics power rails (8pin connector / 18.5A@12V)

Noise for standard configuration (HDD, ODD)

Related Processors for noise	Intel® Xeon® E5-2687v4 w/ NVIDIA® NVS® 315	Intel® Xeon® E5-2687v4 w/ NVIDIA® NVS® 315
Standard noise emission	According to ISO 7779:2010, ECMA-74	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	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: CPU 90% load	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: HDD load	3.8 B / 22 dB(A) Bystander position	3.8 B / 22 dB(A) Bystander position
Standard noise operation mode: Idle mode	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
Standard noise operation mode: ODD load	4.5 B / 27 dB(A) Bystander position	4.5 B / 27 dB(A) Bystander position
Standard noise operation mode: Office applications 2.0	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position

Dimensions / Weight / Environmental

Dimensions (W x D x H)	186 x 481 x 430 mm
Operating position	Vertical / horizontal
Weight	18 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35 ℃ (50 - 95 °F)
Operating relative humidity	5 - 85 % (relative humidity)

Compliance

Product	CELSIUS M740	CELSIUS M740power
Model	ETNA-S	
Germany	GS	
	depending on configuration	
Europe	CE	

Compliance

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® 6.1 (dedicated regions, depending on configuration) EPEAT® Silver (dedicated regions)
Compliance notes	Product Name maybe followed by suffixes
Compliance link	https://sp.ts.fujitsu.com/sites/certificates

Additional Software

Additional software (preinstalled)	Workplace Protect (secure authentication solution) 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)	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 2.0) 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 2.0) 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) SystemLock 3 SmartCard Security (optional): BIOS based pre-boot/ two-factor authentication for high level of access protection	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) SystemLock 3 SmartCard Security (optional): BIOS based pre-boot/ two-factor authentication for high level of access protection

Manageability

Manageability technology	DeskUpdate Driver management iAMT 9.0 (depending on CPU) PXE 2.1 Boot code Wake up from S5 (off mode) 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)	Rack mountable (5U)
Spare part availability	5 years	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

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™ 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 KBPC PX ECO	Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The keyboard is made out of 45% renewable raw material and comes with a PVC free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras.	S26381-K341-L1** (**: 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

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