

# Data Sheet

## Fujitsu 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).

#### Performance 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 accommodate 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

<b>Processor</b>	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 E5-2680v4 (14 cores, 2.40 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 E5-1650v4 (6 Cores, 3.60 GHz, 15 MB)
	Intel® Xeon® processor E5-1630v4 (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)
<b>Operating system preinstalled</b>	
<b>Operating system pre-installed</b>	Windows 10 Pro Windows 7 Professional (available through downgrade rights from Windows 10 Pro)
<b>Operating system compatible</b>	Windows 8.1 Pro 64-bit (available through downgrade rights from Windows 10 Pro) Windows® Server 2012 Linux
<b>Operating system notes</b>	Certified for Red Hat® Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server
<b>Memory modules</b>	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,400 MT/s 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,400 MT/s 32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,400 MT/s
<b>Graphics</b>	Ultra-high-end 3D: NVIDIA® Quadro® P6000, 24 GB, PCIe x16, 1 x Dual Link DVI-D, 4 x DisplayPort Ultra-high-end 3D: NVIDIA® Quadro® P5000, 16 GB, PCIe x16, 1 x Dual Link DVI-D, 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 Midrange 3D: NVIDIA® Quadro® P2000, 5 GB, PCIe x16, 4 x DisplayPort Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCIe x16, 4 x miniDP Entry 3D: NVIDIA® Quadro® P600, 2 GB, PCIe x16, 4 x miniDP
<b>Graphics</b>	Entry 3D: NVIDIA® Quadro® P620, 2 GB, PCIe x16, 4 x miniDP Entry 3D: NVIDIA® Quadro® P400, 2 GB, PCIe x16, 3 x miniDP
<b>Graphics</b>	Professional 2D: NVIDIA® NVS™ 510, 2 GB, 16 cores, PCIe 2.0 x16, 4 x miniDP, 4 x miniDP/DP Adapter Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2 x miniDP, PCoIP Professional 2D: NVIDIA® NVS™ 315, 1 GB, 48 cores, PCIe 2.0 x16, 1 x LFH59 (max. 2 x DP or 2 x DVI-I) Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4 x miniDP, PCoIP Others: DP to DVI-D (single link) Adapter Cable Others: MiniDP to DP Adapter Cable

**Hard disk drives (internal)**

SSD SATA III, 960 GB High Endurance, 3DWP, 2.5-inch  
 SSD SATA III, 480 GB High Endurance, 3DWP, 2.5-inch  
 SSD SATA III, 240 GB High Endurance, 3DWP, 2.5-inch

**Hard disk drives (internal)**

SSD PCIe, 2x 1024 GB M.2 NVMe Highend card  
 SSD PCIe, 2x 512 GB M.2 NVMe Highend card  
 SSD PCIe, 2x 256 GB M.2 NVMe Highend card  
 SSD PCIe, 1x1024 GB M.2 NVMe Highend card  
 SSD PCIe, 1x 512 GB M.2 NVMe Highend card  
 SSD PCIe, 1x 256 GB M.2 NVMe Highend card  
 SSD PCIe, 2x 1024 GB M.2 NVMe card  
 SSD PCIe, 2x 512 GB M.2 NVMe card  
 SSD PCIe, 2x 256 GB M.2 NVMe card  
 SSD PCIe, 1x 1024 GB M.2 NVMe card  
 SSD PCIe, 1x 512 GB M.2 NVMe card  
 SSD PCIe, 1x 256 GB M.2 NVMe card  
 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  
 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

**Hard disk drives (internal)**

HDD SAS, 10,000 rpm, 600 GB, 2.5-inch  
 HDD SATA III, 10,000 rpm, 500 GB, 2.5-inch, business critical

**Hard disk drives (internal)**

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, 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)
PLAN EP X550-T2 2x10GBASE-T
Intel 2x1Gb Ethernet Adapter I350-T2
Gigabit Ethernet PCIe x1
eSATA Interface
Dual serial card PCIe x1
Dual 10 Gigabit Ethernet PCIe x8

<b>Base unit</b>	CELSIUS M740 (S26361-K1447-V355)	CELSIUS M740power (S26361-K1447-V455)
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**Mainboard**

<b>Mainboard type</b>	D3348-A2x
<b>Formfactor</b>	ATX
<b>Chipset</b>	Intel® C612
<b>Processor socket</b>	Socket R3
<b>Processor quantity maximum</b>	1
<b>Supported capacity RAM (max.)</b>	256 GB
<b>Memory slots</b>	8 DIMM (DDR4) ECC
<b>LAN</b>	10/100/1,000 MBit/s Intel® I217LM
<b>BIOS version</b>	AMI Aptio V
<b>BIOS features</b>	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
<b>Audio type</b>	On board
<b>Audio codec</b>	Realtek ALC671
<b>Audio features</b>	High Definition Audio

**I/O controller on board**

<b>Serial ATA total</b>	10
<b>thereof SATA III</b>	10
<b>Controller functions</b>	Serial ATA III (6 Gbit) AHCI RAID 0/1/5/10

**S26361-K1447-V355 CELSIUS M740**

<b>Audio: in (rear)</b>	1
<b>Audio: out (rear)</b>	1
<b>Audio: in</b>	1
<b>Audio: out</b>	1
<b>Internal speakers</b>	1
<b>USB 2.0 total</b>	9
<b>USB 3.1 Gen1 (USB 3.0) total</b>	4
<b>USB front</b>	4 (2x USB 3.0)
<b>USB rear</b>	6
<b>USB internal</b>	3, thereof 1 type A
<b>Ethernet (RJ-45)</b>	1
<b>Interface Module notes</b>	Anytime USB charge functionality

**Input device / components**

Optical USB tilt wheel mouse
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**Input device / components**

Input devices (optional)	Keyboard Optical USB tilt wheel mouse Optical USB wheel mouse
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**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 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 Lw <sub>ad</sub> (in B) / Workplace related A-weighted sound pressure level Lp <sub>Am</sub> (in dB(A))	A-weighted sound power level Lw <sub>ad</sub> (in B) / Workplace related A-weighted sound pressure level Lp <sub>Am</sub> (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

**Dimension with stand (W x D x H)**

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 °C (50 - 95 °F)

Operating relative humidity	5 - 85 % (relative humidity)	
Product	CELSIUS M740	
Model	ETNA-S	
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) Energy Star® 6.1 (dedicated regions, depending on configuration) EPEAT® Silver (dedicated regions)	
Compliance notes	Product Name maybe followed by suffixes	
Compliance link	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>	
<b>Additional Software</b>		
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	
<b>Security</b>		
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
<b>Manageability</b>		
<b>Miscellaneous</b>		
	Rack mountable (5U)	Rack mountable (5U)
Spare part availability	5 years	5 years
<b>Packaging information</b>		
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 period	3 years (depending on country)	
Warranty type	Bring-In / Onsite Service (for countries within region EMEA, for all other countries depending on local regulations)	
Recommended Service	9x5, Onsite Response Time: Next Business Day	
Spare Parts availability	5 years after end of product life 5 years	

## Recommended Accessories

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### 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

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### 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

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### 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

In addition to Fujitsu CELSIUS M740, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

## Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

## Computing Products

[www.fujitsu.com/global/products/computing/](http://www.fujitsu.com/global/products/computing/)

## Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu CELSIUS M740, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.fujitsu.com>

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