

Fujitsu recommends Windows 10 Pro.

# Data Sheet

## FUJITSU Workstation CELSIUS M740 Long Lifecycle

### Long Lifecycle CELSIUS M740

Certain applications as well as business requirements demand long-lasting roll-outs in both, public and private institutions, such as medical environments, telecommunication or power plant IT. The FUJITSU CELSIUS M740 Long Lifecycle desktop workstation is the ideal choice as it guarantees a minimum lifecycle of 36 months.



#### Performance you can count on

Spectrum of performance due to a wide range of professional grade features

- Intel® Xeon® E5-2600 v4 processor family (selected processors)
- Support of Windows 10 Pro
- Support of Windows 7 Professional 64-bit
- Boost your storage performance with super-fast PCIe SSDs to provide a quick loading of core applications
- Supporting up to 12 drive bays and 7 PCI-Express slots

#### Long Lifecycle

Continuity and predictable planning for long-term projects

- While the regular lifecycle of the FUJITSU Workstation M740 is around 18 months, the Long Lifecycle variant is available for a minimum of 36 months
- Selection of specific components (processors and storage) ensure lifecycle stability
- Windows 7 supported

#### Whisper quiet design

Quality which you can trust

- Optimized thermal management and cooling solutions
- Near-silent noise emission of 20 dB(A)
- High product standards thanks to top-quality components

#### Ultimate reliability and 24/7 ready

Stringent quality control and system stability through-out the complete lifecycle

- Comprehensive testing in certified in-house laboratories for 24/7 operation
- Reliable high-endurance and business critical drives designed for long-term operation

#### 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 E5-2680v4 (14 Cores, 2.40 GHz, 35 MB)  |
|                                       | Intel® Xeon® processor E5-2640v4 (10 Cores, 2.40 GHz, 25 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)   |
| <b>Operating systems</b>              |   |
| <b>Operating system pre-installed</b> | Windows 10 Pro  |
| <b>Operating system compatible</b>    | Windows 7 Professional (available through downgrade rights from Windows 10 Pro)<br>Windows® Server 2012<br>Linux  |
| <b>Operating system notes</b>         | Certified for Red Hat® Enterprise Linux<br>Certified for SUSE Enterprise Desktop<br>Certified for SUSE Enterprise Server<br>Windows 10 Support: After the end of the product life FUJITSU will continue to test and support all upcoming Windows 10 releases for a period of maximum 5 years – depending on the available extension of hardware services through FUJITSU Warranty top ups. For details please see “FUJITSU Service Statement for Windows 10 Semi-Annual-Channel Support” at <a href="http://support.ts.fujitsu.com">http://support.ts.fujitsu.com</a> . |
| <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: NVIDIA® Quadro® P4000, 8 GB, PCIe x16, 4 x DisplayPort   |
|                                       | Midrange 3D: NVIDIA® Quadro® P2200, 5 GB, PCIe x16, 4 x DisplayPort   |
|                                       | Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCIe x16, 4 x miniDP   |
|                                       | Entry 3D: NVIDIA® Quadro® P620, 2 GB, PCIe x16, 4 x miniDP  |
|                                       | Entry 3D: NVIDIA® Quadro® P400, 2 GB, PCIe x16, 3 x miniDP  |
|                                       | Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2 x miniDP, PCoIP   |
|                                       | 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, 1DWDP, 2.5-inch  
 SSD SATA III, 480 GB High Endurance, 1DWDP, 2.5-inch  
 SSD SATA III, 240 GB High Endurance, 1DWDP, 2.5-inch  
 SSD PCIe, 2048 GB M.2 NVMe Highend module  
 SSD PCIe, 2x 2048 GB M.2 NVMe Highend card  
 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, 1x 2048 GB M.2 NVMe Highend card  
 SSD PCIe, 1x 1024 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, 512 GB, 2.5-inch, SED  
 HDD SAS, 10,000 rpm, 2400 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, 600 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, 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   |

|           |                                    |
|-----------|------------------------------------|
| Base unit | CELSIUS M740-L (S26361-K1447-V350) |
|-----------|------------------------------------|

**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<br>Recovery BIOS<br>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)<br>AHCI<br>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**

|                          |   |
|--------------------------|---|
| Input devices (optional) | Optical USB tilt wheel mouse<br>Keyboard<br>Optical USB tilt wheel mouse<br>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<br>Up to 4x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSD or<br>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® E5-2687Wv4 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                                |
| 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)                      |

**Compliance**

|         |              |
|---------|--------------|
| Product | CELSIUS M740 |
| Model   | ETNA-S       |

**Compliance**

|                  |   |
|------------------|---|
| Germany          | GS<br>depending on configuration  |
| Europe           | CE  |
| USA/Canada       | FCC Class B<br>cCSAus   |
| Global           | RoHS (EU & China)<br>Microsoft Operating Systems (HCT / HCL entry / WHQL)<br>WEEE (Waste electrical and electronic equipment) |
| 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>                       |

**Additional Software**

|                                    |   |
|------------------------------------|---|
| Additional software (preinstalled) | Workplace Protect (secure authentication solution)<br>McAfee® LiveSafe™ (provides award-winning antivirus protection for your PC and much more. 30 days trial pre-installed)<br>Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy Microsoft Office.) |
|------------------------------------|---|

**Security**

|                          |   |
|--------------------------|---|
| Physical Security        | Kensington Lock support<br>Eye for padlock<br>Intrusion switch<br>Integrated cabinet lock (optional)  |
| System and BIOS Security | Write protect option for the Flash EPROM<br>Boot protection for floppy disk / CD drive and write protection for floppy disk drive<br>Control of all USB interfaces<br>Trusted Platform Module (TPM 2.0)<br>EraseDisk  |
| User Security            | User and supervisor BIOS password<br>Hard disk password<br>Access protection via external SmartCard reader (optional)<br>Access protection via internal SmartCard reader (optional)<br>Workplace Protect (secure authentication solution)<br>SystemLock 3 SmartCard Security (optional): BIOS based pre-boot/ two-factor authentication for high level of access protection |

**Manageability**

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

**Miscellaneous**

|                         |                     |
|-------------------------|---------------------|
|                         | Rack mountable (5U) |
| Spare part availability | 5 years             |

**Packaging information**

|                          |                    |
|--------------------------|--------------------|
| Packaging dimension (mm) | 397 x 597 x 597 mm |
|--------------------------|--------------------|

**Packaging information**

|                            |                          |
|----------------------------|--------------------------|
| Packaging dimension (inch) | 15.63 x 23.5 x 23.5 inch |
| Max. quantity / pallet     | 16                       |
| Packaging notes            | 597 mm                   |

**Warranty**

|                             |  |
|-----------------------------|--|
| 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) |
| Warranty Terms & Conditions | <a href="http://www.fujitsu.com/warranty">http://www.fujitsu.com/warranty</a>  |

**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<br>5 years  |
| Service Weblink          | <a href="http://www.fujitsu.com/emeia/products/product-support-services/">http://www.fujitsu.com/emeia/products/product-support-services/</a> |

## Recommended Accessories

**Display P27-8 TS Pro**

If you're a pixel, color and performance-hungry professional using demanding applications, the FUJITSU P27-8 TS Pro Display is the perfect choice. The display provides outstanding picture performance thanks to cutting-edge panel technology and 3.7 Mio pixels. It also boasts unique and innovative features such as our patent-applied Presence Sensor technology and USB support during standby.

Order Code:  
S26361-K1594-V160

**Display B34-9 UE**

The FUJITSU Display B34-9 UE is an ultrawide curved display with 3440 x 1440 resolution with a thin bezel housing. The monitor has a 1900R curvature and a wide viewing angle that delivers consistent picture quality, DisplayView™ software and a range of connectivity options ideal for medium- and large-sized businesses.

Order Code:  
S26361-K1642-V140

**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

## More information

### Fujitsu products, solutions & services

In addition to the FUJITSU Workstation CELSIUS M740 Long Lifecycle, 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/](http://www.fujitsu.com/global/products/computing/)

#### Software

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

### More information

Learn more about the FUJITSU Workstation CELSIUS M740 Long Lifecycle, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. [www.fujitsu.com/emeia/CELSIUS](http://www.fujitsu.com/emeia/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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