

Fujitsu recommends Windows 10 Pro.

# Data Sheet

## FUJITSU Workstation CELSIUS C740

### 1U Performance from Virtually Anywhere

Driven by German precision engineering and innovation, Fujitsu's engineers maximized rack density in the datacenter while at the same time offering true workstation performance in only 1U. This allows customers in the automotive, aeronautic, broadcasting, energy as well as healthcare industry to benefit from faster time-to-market and reduced innovation cycles from the safety of the datacenter.



#### Manageability

Server based management in a rack workstation

- Windows® Server 2012 R2
- The integrated Remote Management Controller iRMC S4 allows comprehensive control, irrespective of the system status
- ServerView embedded Lifecycle Management (eLCM) offers image management and enables LAN enhanced security and stability in a fully automated environment
- Easy to set-up

#### Energy efficiency

Fujitsu's Cool-safe® Advanced Thermal Design technology for a broader range of ambient temperature

- Temperatures in the data center can now vary between 5 °C and 40 °C
- Benefits: cost savings and optimization potential

#### Best visualization - even virtualized

Meeting your demands as a 1:1 remote workstation, a 1:n virtualized workstation or even a node in a render cluster

- Support of up to two high-end graphic cards (single height) or one ultra-high-end graphic card (double height)
- Up to 512 GB DDR4 (2400 MHz) memory

#### Storage Flexibility

Comprehensive choice of storage solutions

- SATA DOM: Disk-On-Module with SSD performance i.e. for booting your hypervisor
- Fujitsu PCIe SSD: Choice of on-board or PCIe card solution for maximum I/O performance
- SATA SSD: High-speed SATA SSDs



RADEON PRO WX

# 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 E5-2680v4 (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)

## Operating systems

<b>Operating system pre-installed</b>	Windows 10 Pro for Workstations
<b>Operating system compatible</b>	Windows 7 Professional (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 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> .

## Memory modules

4 GB (1 module(s) 4 GB) DDR4, registered, ECC, 2,400 MT/s
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
64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 2,400 MT/s

**Graphics**

Ultra-high-end 3D: NVIDIA® Quadro® GV100, 32 GB, PCIe x16, 4 x DisplayPort
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 Radeon™ Pro WX 7100 , 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
Midrange 3D: AMD Radeon™ Pro WX 5100, 8 GB, 320 stream processors, PCIe x16, 4 x DisplayPort
Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCIe x16, 4 x miniDP
Entry 3D: AMD Radeon™ Pro WX 3100, 4 GB, 320 stream processors, PCIe x16, 1 x DisplayPort, 2 x miniDP
Entry 3D: AMD Radeon™ Pro WX 2100, 2 GB, 320 stream processors, PCIe x16, 1 x DisplayPort, 2 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 Quad Card, PCIe x1, 4 x miniDP, PCoIP
Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2 x miniDP, PCoIP
Others: DP to DVI-D (single link) Adapter Cable
Others: MiniDP to DP Adapter Cable

**Personal Supercomputing**

Coprocessor: NVIDIA® Tesla® M60, 16 GB, 4096 cores, PCIe x16
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**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, 1024 GB M.2 NVMe Highend module
SSD PCIe, 512 GB M.2 NVMe Highend module
SSD PCIe, 256 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, 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, 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, 256 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, 600 GB, 2.5-inch
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

<b>Hard disk notes</b>	*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)
<b>Drives (optional)</b>	DVD Super Multi ultra slim (tray)
<b>SCSI / SAS Controller</b>	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. Flash Backup Unit (FBU + TFM) For RAID controller D3216
<b>Interface add on cards/components (optional)</b>	Serial Interface FH PLAN EP X550-T2 2x10GBASE-T Intel 2x1Gb Ethernet Adapter I350-T2 Gigabit Ethernet PCIe x1 Dual 10 Gigabit Ethernet PCIe x8
<b>Base unit</b>	CELSIUS C740 (S26361-K1448-V125)
<b>Mainboard</b>	
<b>Mainboard type</b>	D3288-A2
<b>Formfactor</b>	proprietary
<b>Chipset</b>	Intel® C612
<b>Processor socket</b>	LGA 1155
<b>Processor quantity maximum</b>	1
<b>Supported capacity RAM (max.)</b>	512 GB
<b>Memory slots</b>	8 DIMM (DDR4) ECC
<b>Memory frequency</b>	2,400 MT/s
<b>Memory notes</b>	Quad channel support. For quad channel performance, a minimum of 4 memory modules have to be ordered. Capacity per channel has to be the same.
<b>LAN</b>	2x Built-in 10/100/1,000 MBit/s Intel® I217LM and Intel® I210AT
<b>BIOS features</b>	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
<b>I/O controller on board</b>	
<b>Serial ATA total</b>	6
<b>thereof SATA III</b>	6
<b>Controller functions</b>	Serial ATA III (6 Gbit) NCQ AHCI RAID 0/1/5/10
<b>SATA RAID support</b>	0, 1, 10, 5
<b>Interfaces</b>	
<b>USB 2.0 total</b>	2
<b>USB 3.1 Gen1 (USB 3.0) total</b>	2
<b>USB front</b>	2x 2.0
<b>USB rear</b>	2x 3.0
<b>USB internal</b>	1x 3.0
<b>VGA</b>	1 (IRMC)
<b>Serial (RS-232)</b>	1 (optional via slot bracket)
<b>Ethernet (RJ-45)</b>	2

**Input device / components**

Input devices (optional)	Optical USB tilt wheel mouse Keyboard
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**Drive bays**

Drive bays total	5
2.5-inch internal bays	4
5.25-inch external bays	1
Drive bay notes	Up to 4x 2.5-inch HDDs/SSDs (cold plug)

**Slots**

PCI-Express 3.0 x8 (mech. x16)	1 Full height (single slot density)
PCI-Express 3.0 x16	1 x (340 mm / 13.39 inch) Full height (double slot density) or 2 x (340 mm / 13.39 inch) Full height (single slot density)

**Electrical values**

Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 90% / 94% / 92%
Rated voltage range	100 V - 240 V (AC Input)
Rated frequency range	47 Hz - 63 Hz
Operating voltage range	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	800 W
Power supply output	800 W

**Dimensions / Weight / Environmental**

Dimensions (W x D x H)	431 x 683 x 44.45 mm 16.97 x 26.89 x 1.75 inch
Operating position	Horizontal / vertical (I/O ports facing down)
Weight	approx. 13 kg
Weight (lbs)	approx. 28.7 lbs
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 C740
Model	CR1U
Europe	CE Class A*
USA/Canada	FCC Class A
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL)
Compliance link	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**Additional Software**

Additional software (preinstalled)	Nero Essentials S (burning software) Fujitsu Recovery (hard disk based recovery) Norton Internet Security (incl. Firewall) 60 days version Microsoft Office (1 month trial for new Microsoft® Office 365 customers. Buy Microsoft Office.)
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) Nero 10 Essentials XL (burning/backup/DVD-playback suite)

<b>Security</b>	
<b>System and BIOS Security</b>	EraseDisk Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 2.0) Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces
<b>User Security</b>	User and supervisor BIOS password Hard disk password
<b>Manageability</b>	
<b>Manageability technology</b>	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) iAMT Intel® Active Manageability Technology v8.0 (not activated, not set up)
<b>Manageability software</b>	DeskView 10.x client management including:
<b>DeskView components</b>	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)
<b>Manageability link</b>	<a href="http://www.fujitsu.com/fts/manageability">http://www.fujitsu.com/fts/manageability</a> <a href="http://www.fujitsu.com/fts/solutions/high-tech/solutions/workplace/manageability/feature-finder.html">http://www.fujitsu.com/fts/solutions/high-tech/solutions/workplace/manageability/feature-finder.html</a>
<b>Packaging information</b>	
<b>Packaging dimension (mm)</b>	264 x 490 x 87 mm
<b>Packaging dimension (inch)</b>	10.39 x 19.29 x 3.43 inch
<b>Max. quantity / pallet</b>	12
<b>Packaging notes</b>	printed user documentation is bleached in chlorine free process
<b>Warranty</b>	
<b>Warranty period</b>	3 years (depending on country)
<b>Warranty type</b>	Onsite Service
<b>Warranty Terms &amp; Conditions</b>	<a href="http://support.ts.fujitsu.com/warranty">http://support.ts.fujitsu.com/warranty</a>
<b>Product Support Services - the perfect extension</b>	
<b>Recommended Service</b>	9x5, Onsite Response Time: Next Business Day
<b>Spare Parts availability</b>	5 years after end of product life 5 years
<b>Service Weblink</b>	<a href="http://www.fujitsu.com/fts/services/support">http://www.fujitsu.com/fts/services/support</a>

## Recommended Accessories

### FUTRO L420



The FUJITSU FUTRO L420 meets a multitude of user and business needs. It is designed to handle standard office tasks and demanding, high-graphics applications over PCoIP. Dual-monitoring enables you to increase your productivity. As a smart zero client, the FUJITSU FUTRO L420 provides high security, easy management and zero noise, whilst being user-friendly and integrating easily into an existing VMware® network.

Order Code:  
S26361-K1062-V200

**FUTRO L620**



The FUJITSU FUTRO L620 meets a multitude of user and business needs. It is designed to handle standard office tasks and demanding, high-graphics applications over PCoIP. Quad-monitoring enables you to increase your productivity. As a smart zero client, the FUJITSU FUTRO L620 provides high security, easy management and zero noise, whilst being user-friendly and integrating easily into an existing VMware® network.

Order Code:  
S26361-K1062-V300

## More information

### Fujitsu products, solutions & services

In addition to the FUJITSU Workstation CELSIUS C740, 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 FUJITSU Workstation CELSIUS C740, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/fts/CELSIUS](http://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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