

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



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 E5-1660v3 (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 Radeon Pro™ WX5100, 8 GB, 320 stream processors, 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: AMD Radeon Pro™ WX3100, 4 GB, 320 stream processors, PCIe x16, 1x DisplayPort, 2x miniDP
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 Radeon Pro™ WX2100, 2 GB, 320 stream processors, PCIe x16, 1x DisplayPort, 2x miniDP
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
Coprocessor: NVIDIA® Tesla® M60, 16 GB, 4,096 cores, PCIe x16
Coprocessor: NVIDIA® Tesla® K80, 2x 12 GB, PCIe x16

Hard disk drives (internal)	SSD SATA III, 960 GB High Endurance, 2.5-inch
	PCIe-SSD, 1024 GB M.2 NVMe Highend module
	PCIe-SSD, 512 GB M.2 NVMe Highend module
	PCIe-SSD, 256 GB M.2 NVMe Highend module
	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, 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, 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, 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, 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
Hard disk notes	<p>*Disk imaging software of the customer must be 4k sector size / advanced format ready</p> <p>One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.</p> <p>24/7 ready (business critical HDDs required)</p> <p>Up to 20 GB of HDD space is reserved for system recovery</p> <p>SSHD (Solid State Hard Disk, Hybrid drive)</p> <p>SED (Self-Encrypting Drive)</p> <p>SSD (Solid State Disk)</p>
Drives (optional)	DVD Super Multi ultra slim (tray)
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)	Serial Interface FH
	Gigabit Ethernet PCIe x1, DS
	Dual 10 Gigabit Ethernet PCIe x8
Base unit	CELSIUS C740 (S26361-K1448-V125)
Mainboard	
Mainboard type	D3288-A2
Formfactor	proprietary
Chipset	Intel® C612
Processor socket	LGA 1155

Mainboard

Processor quantity maximum	1
Supported capacity RAM (max.)	512 GB
Memory slots	8 DIMM (DDR4) ECC
Memory frequency	2,400 MHz
Memory notes	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.
LAN	2x Built-in 10/100/1,000 MBit/s Intel® I217LM and Intel® I210AT
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)

I/O controller on board

Serial ATA total	6
thereof SATA III	6
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI RAID 0/1/5/10
SATA RAID support	0, 1, 10, 5

Interfaces

USB 2.0 total	2
USB 3.1 Gen1 (USB 3.0) total	2
USB front	2x 2.0
USB rear	2x 3.0
USB internal	1x 3.0
VGA	1 (IRMC)
Serial (RS-232)	1 (optional via slot bracket)
Ethernet (RJ-45)	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

Dimensions / Weight / Environmental

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	https://sp.ts.fujitsu.com/sites/certificates

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 (buy license to activate the pre-installed Microsoft Office)
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) Nero 10 Essentials XL (burning/backup/DVD-playback suite)

Security

System and BIOS Security	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
User Security	User and supervisor BIOS password Hard disk password

Manageability

Manageability technology	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)
Manageability software	DeskView 10.x client management including:
DeskView components	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)
Manageability link	http://www.fujitsu.com/fts/manageability http://www.fujitsu.com/fts/solutions/high-tech/solutions/workplace/manageability/feature-finder.html

Packaging information

Packaging dimension (mm)	264 x 490 x 87 mm
Packaging dimension (inch)	10.39 x 19.29 x 3.43 inch
Max. quantity / pallet	12
Packaging notes	printed user documentation is bleached in chlorine free process

Warranty

Warranty period	3 years (depending on country)
Warranty type	Onsite Service (depending on country)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Product Support Services - the perfect extension	
Recommended Service	9x5, Onsite Response Time: Next Business Day-duplicate
Spare Parts availability	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/services/support

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 OPTIMIZATION 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/

Software

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

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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Fujitsu Technology Solutions
Website: www.fujitsu.com/fts
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