FUJITSU

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, 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 automized environment
- Easy to set-up

Density and Performance
1U of pure workstation performance
- Broad offering of Intel® Xeon® processors as well as ultra high-end graphics cards from AMD and Nvidia
- vGPU from Nvidia

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 ulta-high-end graphic card (double height)
- Up to 256 GB DDR4 (2133 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 E5-2699v3 (18 cores, 2.30 GHz, 45 MB)
	Intel® Xeon® processor E5-2698v3 (16 cores, 2.30 GHz, 40 MB)
	Intel® Xeon® processor E5-2697v3 (14 cores, 2.60 GHz, 35 MB)
	Intel® Xeon® processor E5-2690v3 (12 cores, 2.60 GHz, 30 MB)
	Intel® Xeon® processor E5-2660v3 (10 Cores, 2.60 GHz, 25 MB)
	Intel® Xeon® processor E5-2637v3 (4 Cores, 3.50 GHz, 15 MB)
	Intel® Xeon® processor E5-2630v3 (8 Cores, 2.40 GHz, 20 MB)
	Intel® Xeon® processor E5-2623v3 (4 Cores, 3.00 GHz, 10 MB)
	Intel® Xeon® processor E5-2620v3 (6 Cores, 2.40 GHz, 15 MB)
	Intel® Xeon® processor E5-2609v3 (6 Cores, 1.90 GHz, 15 MB)
	Intel® Xeon® processor E5-2603v3 (6 Cores, 1.60 GHz, 15 MB)
	Intel® Xeon® processor E5-1680v3 (8 Cores, 3.20 GHz, 20 MB)
	Intel® Xeon® processor E5-1660v3 (8 Cores, 3.00 GHz, 20 MB)
	Intel® Xeon® processor E5-1650v3 (6 Cores, 3.50 GHz, 15 MB)
	Intel® Xeon® processor E5-1630v3 (4 Cores, 3.70 GHz, 10 MB)
	Intel® Xeon® processor E5-1620v3 (4 Cores, 3.50 GHz, 10 MB)
	Intel® Xeon® processor E5-1607v3 (4 Cores, 3.10 GHz, 10 MB)
	Intel® Xeon® processor E5-1603v3 (4 Cores, 2.80 GHz, 10 MB)

Operating systems

Operating system	Windows 10 Pro Windows 8.1 Pro Windows 7 Professional 64-bit
Operating system compatible	Windows 10 Home Windows 8.1 Windows® Server 2012 R2 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, 2,133 MHz, PC4-2133
	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133
	16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133
	32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,133 MHz, PC4-2133

Graphics	Ultra-high-end 3D: NVIDIA® Quadro® M6000, 12 GB, 3,072 cores, PCIe x16, 1x Dual Link DVI-I, 4 x DisplayPort, stereo, SLI
	Ultra-high-end 3D: AMD FirePro™ W9100, 16 GB, 2816 stream processors, PCIe x16, 6x miniDP, 6x miniDP/DP Adapter
	Ultra-high-end 3D: NVIDIA® Quadro® M5000, 8 GB, 2304 cores, PCIe x16, 1x Dual Link DVI-I, 4 x DisplayPort
	Ultra-high-end 3D: NVIDIA® Quadro® K5200, 8 GB, 2304 cores, PCIe x16, 1x Dual Link DVI-I, DVI-D, 2x DisplayPort
	High-end 3D: AMD FirePro™ W7100, 8 GB, PCIe x16, 4 x DisplayPort
	High-end 3D: NVIDIA® Quadro® M4000, 8 GB, 1344 cores, PCIe x16, 4 x DisplayPort
	High-end 3D: NVIDIA® Quadro® K4200, 4 GB, 1344 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: NVIDIA® Quadro® K2200, 4 GB, 640 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: AMD FirePro™ W5100 , 4 GB, PCIe x16, 4 x DisplayPort
	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® 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® K420, 1 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)
	GPU computing card: NVIDIA® GRID™ K2 8GB, 8 GB, 3,072 cores, PCIe x16
	Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP
	Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP
Personal Supercomputing	Coprocessor: NVIDIA® Tesla® K40, 12 GB, 2,496 cores, PCIe x16
	Coprocessor: NVIDIA® Tesla® K80, 2x 12 GB, 2,496 cores, PCIe x16
	Coprocessor: Intel® Xeon Phi™ Coprocessor 3120A, PCIe x16
	Coprocessor: Intel® Xeon Phi™ Coprocessor 5110P, PCIe x16
Hard disk drives (internal)	SSD PCIe 1x512 GB Highend card
	SSD PCIe 1x256 GB Highend card
	SSD PCIe 512 GB M.2 Highend
	SSD PCIe 256 GB M.2 Highend
	SSD SATA III, 400 GB High Endurance, 2.5-inch
	SSD SATA III, 200 GB High Endurance, 2.5-inch
	SSD SATA III, 1024 GB Mainstream, 2.5-inch
	SSD SATA III Premium, 512 GB, 2.5-inch
	SSD SATA III Premium, 256 GB, 2.5-inch
	SSD SATA III Premium, 128 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
	DOM SATA, 128 GB, enterprise
	DOM SATA, 64 GB, enterprise
	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 SAS, 10,000 rpm, 300 GB, 2.5-inch
	HDD SATA III, 7,200 rpm, 2 TB, 2.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1 TB, 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	*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)

Drives (optional)	DVD Super Multi ultra slim
SCSI / SAS Controller	RAID 5/6 Ctrl. 12 Gbit/s 8 ports int.
	RAID 0/1 Ctrl. 12 Gbit/s 8 ports int.
	RAID 0/1 Ctrl. 6 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

Mainboard	
Mainboard type	D3288
Formfactor	proprietary
Chipset	Intel® C612
Processor socket	LGA 1155
Processor quantity maximum	1
Supported capacity RAM (max.)	256 GB
Memory slots	8 DIMM (DDR4) ECC
Memory frequency	2,133 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 3.0 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

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
Weight	approx. 13 kg
Weight (lbs)	approx. 28.7 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35 ℃ (50 - 95 ℉)
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 notes	* Warning:
	This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
Compliance link	http://globalsp.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)
	CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not supported under Windows XP if the system runs on Intel onboard graphics)
	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 1.2)
	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 (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 3 years material warranty)
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

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

Display P24W-7 LED

If you're a pixel, color and performance-hungry professional using demanding applications, the FUJITSU P24W-7 LED Display is the perfect choice. The display provides outstanding picture performance thanks to a cutting-edge graphic panel. It also boasts unique and innovative features such as our patent-applied Presence Sensor technology and the Always Available Powered USB Hub.

Order Code:
S26361-K1498-V140

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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