

Fujitsu recommends Windows 10 Pro.

FUJITSU Workstation CELSIUS

Choose the right hardware to accelerate the software application



Mobile Workstation

Elegant. Mobile. Power.

CELSIUS H: H770 - 15.6-inch
H970 - 17.3-inch



Desktop Workstation

Develop, Simulate, Calculate and Visualize your Ideas

CELSIUS J: J550/2 (Small Form Factor)
CELSIUS W: W550 Long Lifecycle, W570, W570power+
CELSIUS M: M740, M740 Long Lifecycle
CELSIUS R: R940 (dual-processor)



Rack Workstation

Ideal for a 1:1 remote access solution

CELSIUS C: C740 (1U rack workstation)

APPLICATION FIELDS



CAD
Computer Aided Design



CAE, SIM
Computer Aided Engineering & Simulation



AEC
Architecture, Engineering and Construction



M&E
Media & Entertainment



GIS, O&G
Geographic Information System & Oil and Gas



Healthcare

USAGE SCENARIO

2D and 3D technical drawing of physical objects, parts and assemblies (Product design, industrial design, modelling, model analysis)

Mechanical, thermal and fluid simulations
Electronic design simulation

2D and 3D planning and construction (incl. BIM) of buildings, factories and infrastructure

Content creation, video editing, animation, photo retouching, special effects, design and photorealistic renderings

Geo data collection, processing and visualisation

Visualize and simulate biological and chemical systems
Electronic Health & Medical Record (EHR, EMR), Personal Health Record (PHR)

TYPICAL INDUSTRIES

All manufacturers:
• Automotive, Aerospace, etc.

All industries

• Plants
• Shipbuilding & Offshore industries
• Tunnels and bridges
• Urban planning

• Broadcasting
• Film and animation studios
• Agencies
• Marketing

• Defense and government
• Science and research
• Cartography
• Transportation

• Medical product vendors
• Chemistry and Pharmacology
• Hospitals
• Biotechnology and Laboratory Diagnostics

SOFTWARE

• Autodesk (AutoCAD, Inventor)
• Dassault Systèmes (CATIA, 3DEXCITE, DeltaGen, SOLIDWORKS)
• Siemens PLM (NX, Teamcenter)
• PTC (Creo Parametric)

• ANSYS (Fluent, CFX, Mechanical)
• Autodesk (Revit, Moldflow)
• Dassault Systèmes (SIMULIA)
• MSC Software (Nastran, Patran)
• Siemens PLM (Tecnomatix, FiberSIM)

• Autodesk (AutoCAD, Revit)
• AVEVA
• Bentley (Microstation)
• Hexagon (Geosystems, Metrology)
• Nemetschek (Allplan)
• Trimble (Sketchup Pro, Tekla BIMsight)

• Adobe (Premiere Pro, After Effects, Photoshop)
• Autodesk (Maya, 3ds Max, VRED)
• Avid (Media Composer)
• Chaos Group (V-Ray)
• Dassault Systèmes (ICEM Surf Design)

• ESRI (ArcGIS)
• Intergraph (Geomedia)
• Halliburton (Landmark, Pinnacle)
• Paradigm (Echos RTM, Tech)
• Schlumberger (Petrel, ECLIPSE, Omega)

Mostly in-house developed software like Syngo (Siemens Healthcare)
Dassault Systèmes: Simulia

TOP REQUIREMENTS

• Single-threaded app => high processor frequencies
• Fast flash drives
• Moderate storage capacity
• Open GL graphics

• Multi-threaded app => high number of cores
• Fast flash drives
• Maximum memory
• High storage capacity
• Compute GPUs & 3D graphics

• Single-threaded app => high numbers of cores
• Fast flash drives
• Moderate storage capacity
• Open GL graphics

• Multi-threaded app => high number of cores
• Fast flash drives
• High storage capacity
• Graphics: 2D and 3D

• Multi-threaded app => high number of cores
• Fast flash drives
• Maximum memory
• High storage capacity
• Compute GPUs & 3D graphics

• Long lifecycle models
• Whisper quiet
• Customization (Made4You)

PRODUCTS

CELSIUS H
CELSIUS J, W, M

CELSIUS M & R

CELSIUS H
CELSIUS J & W

CELSIUS H
CELSIUS W
CELSIUS M

CELSIUS R

CELSIUS
Long Lifecycle products

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	MOBILE WORKSTATIONS		DESKTOP WORKSTATIONS		
Series	CELSIUS H		CELSIUS J	CELSIUS W	
Model	H770	H970	J550/2	W550 (incl. Long Lifecycle model)	W570
Form Factor	39,6 cm (15.6-inch) Full HD, UHD/4K	43,9 cm (17.3-inch) Full HD	Small Form Factor (SFF)	Micro Tower	Micro Tower
Weight / liter	Weight: 2.75 kg	Weight: 3.4 kg	10 liter - single processor	29 liter - single processor	21 liter - single processor
Noise emission	-	-	Whisper quiet: 21 dB(A)	Whisper quiet: 19 dB(A)	Whisper quiet: 19 dB(A)
Processor (incl. cores & frequency)	Intel® Xeon® processor E3-1500 v6 family (max. 4.20 GHz) Intel® Core™ i7 vPro™ processor (max. 4.10 GHz)	Intel® Xeon® processor E3-1500 v6 family (max. 4.20 GHz) Intel® Core™ i7 vPro™ processor (max. 3.90 GHz) Intel® Core™ i5 vPro™ processor (max. 3.80 GHz)	Intel® Xeon® processor E3-1200 v5 and v6 family (max. 4 cores / 4.20 GHz) Intel® Core™ i7 vPro™ processor (max. 4 cores / 4.20 GHz) Intel® Core™ i5 vPro™ processor (max. 4 cores / 3.90 GHz) Intel® Core™ i3 processor (max. 2 cores / 3.90 GHz)	Intel® Xeon® processor E3-1200 v5 family (max. 4 cores / 4.00 GHz) Intel® Core™ i7 vPro™ processor (max. 4 cores / 4.00 GHz) Intel® Core™ i5 vPro™ processor (max. 4 cores / 3.90 GHz) Intel® Core™ i3 processor (max. 2 cores / 3.70 GHz)	Intel® Xeon® processor E3-1200 v5 and v6 family (max. 4 cores / 4.20 GHz) Intel® Core™ i7 vPro™ processor (max. 4 cores / 4.20 GHz) Intel® Core™ i5 vPro™ processor (max. 4 cores / 4.10 GHz) Intel® Core™ i3 processor (max. 2 cores / 3.90 GHz)
Operating System (pre-installed)	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro Windows 7 Professional (available through downgrade rights from Windows 10 Pro)	Windows 10 Pro Windows 7 Professional (available through downgrade rights from Windows 10 Pro)	Windows 10 Pro Windows 7 Professional (available through downgrade rights from Windows 10 Pro)
Memory	Up to 64 GB, 4 SO DIMM memory slots, DDR4 - 2,400 MHz	Up to 64 GB, 4 SO DIMM memory slots, DDR4 - 2,400 MHz	Up to 64 GB, 4 UDIMM memory slots, non-ECC/ECC, DDR4 - 2,400 MHz	Up to 64 GB, 4 UDIMM memory slots, non-ECC/ECC, DDR4 - 2,133 MHz	Up to 64 GB, 4 UDIMM memory slots, non-ECC/ECC, DDR4 - 2,400 MHz
Professional Graphics Cards	NVIDIA® Quadro® M620: 512 CUDA Cores NVIDIA® Quadro® M1200: 640 CUDA Cores NVIDIA® Quadro® M2200: 1024 CUDA Cores	NVIDIA® Quadro® P3000: 1280 CUDA Cores NVIDIA® Quadro® P4000: 1792 CUDA Cores (VR-ready) NVIDIA® Quadro® P5000: 2048 CUDA Cores (VR-ready)	Full height graphics cards: NVIDIA® Quadro®: up to P2000 AMD FirePro™: up to W2100	Up to 1x graphic card: NVIDIA® NVS®: up to 510 NVIDIA® Quadro®: up to M4000 AMD FirePro™: up to W7100	Up to 1x graphic card: NVIDIA® Quadro®: up to P2000 or P4000 (VR-ready) AMD FirePro™ W2100
Compute Cards	-	-	-	-	-
Storage	SSD SATA SED SSD SATA PCIe-SSD M.2 module SED SSD SATA M.2 module SED	SSD SATA PCIe-SSD NVMe PCIe-SSD NVMe SED SSD SATA M.2 module SSD SATA M.2 module SED	PCIe-SSD M.2 module (Standard, Highend) PCIe-SSD NVMe card (Standard, Highend) SSD SATA (Standard, High Endurance, SED) HDD SATA (Standard, Business Critical, Enhanced Availability)	PCIe-SSD M.2 module (Highend) PCIe-SSD NVMe (Highend) SSD SATA (Standard, High Endurance, SED) SSHD and HDD SATA (Standard, Business Critical, Enhanced Availability)	PCIe-SSD M.2 module (Standard, Highend) PCIe-SSD NVMe (Highend) SSD SATA (Standard, High Endurance, SED) SSHD and HDD SATA (Standard, Business Critical, Enhanced Availability)
Drive bays	Modular bay: support for optical drives or 2nd battery Up to 14 hours of battery life (with 2nd battery)	Up to 9 hours of battery life	3 in total: 1x internal, 2x external 1 x M.2-2280 on mainboard (for PCIe or SATA SSD modules)	W550: 7 in total (3x internal, 4x external) W550power: 9 in total (5x internal, 4x external) 1 x M.2-2280 on mainboard (for PCIe and SATA SSD modules)	5 in total: 3x internal, 2x external 1 x M.2-2280 on mainboard (for PCIe and SATA SSD modules)
Slots / Interfaces	1x DC-in, 1x Audio line-in, 1x Audio line-out, 2 digital array microphones, 1x USB 2.0, 2x USB 3.1 Gen1, 1x USB Type-C™, 1x VGA, 1x DisplayPort, 1x RJ-45, 1x SmartCard slot, 1x SIM card slot, MultiCardReader, 1x Kensington Lock, 1x Docking Connector	1x DC-in, 1x combo in/out, 2x digital array microphones, 3x USB 3.1 Gen 1, 2x USB Type-C™, 1x VGA, 1x DisplayPort, 1x RJ-45, 1x SmartCard slot, MultiCardReader, 1x Kensington Lock	Riser cards - 2 in total: 1x PCIe 3.0 x16, 1x PCIe 3.0 x4 (mech. x16) or 1x PCIe 3.0 x16 and 1x PCI	4 in total: 2x PCIe 3.0 x1 1x PCIe 3.0 x4 (mech. x16) 1x PCIe 3.0 x16	4 in total: 2x PCIe 3.0 x1 1x PCIe 3.0 x4 (mech. x16) 1x PCIe 3.0 x16
USB	4 in total (1x USB 2.0, 2x USB 3.0, 1x USB Type-C™)	5 in total (3x USB 3.1 Gen1, 2 x USB Type-C™)	12 in total (2x USB 2.0, 9x USB 3.1 Gen1; optional USB 3.1 Gen2 via add on card)	13 in total (6x USB 2.0, 7x USB 3.0)	14 in total (6x USB 2.0, 7x USB 3.1 Gen1; optional USB 3.1 Gen2 via add on card)
Serial ATA	-	-	5	6	8
Power Supply	150 W	250 W	280 W - max. 92% efficiency	W550: max. 300 W - max. 92% efficiency W550power: max. 500 W - max. 93% efficiency	W570: max. 280 W - max 88% efficiency W570power: max. 400 W - max 92% efficiency
Others	Made in Japan Display: anti-glare, magnesium, 300 cd/ m² Common port replicator with LIFEBOOK/STYLISTIC PalmSecure™: optional, palm vein technology	Made in Germany Display: anti-glare, magnesium, 300 cd/ m² Thunderbolt 3 port replicator VR-ready	Made in Germany	Made in Germany W550power Long Lifecycle model: limited component offering, minimum 36 months lifecycle	Made in Germany W570power: VR-ready

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DESKTOP WORKSTATIONS

RACK WORKSTATIONS

Series	CELSIUS W	CELSIUS M	CELSIUS R	CELSIUS C
Model	W570power+	M740 (incl. Long Lifecycle model)	R940	C740
Form Factor	Micro Tower	Midi Tower	Big Tower	1U
Weight / liter	21 liter - single processor	38 liter - single processor	49 liter - dual processor	Single processor
Noise emission	Whisper quiet: 19 dB(A)	Whisper quiet: 20 dB(A)	Whisper quiet: 23 dB(A)	-
Processor (incl. cores & frequency)	Intel® Xeon® processor E3-1200 v5 and v6 family (max. 4 cores / 4.20 GHz) Intel® Core™ i7 vPro™ processor (max. 4 cores / 4.20 GHz) Intel® Core™ i5 vPro™ processor (max. 4 cores / 4.10 GHz) Intel® Core™ i3 processor (max. 2 cores / 3.90 GHz)	Intel® Xeon® processor E5-2600 v4 family (max. 18 cores / 3.50 GHz) Intel® Xeon® processor E5-1600 v4 family (max. 8 cores / 3.70 GHz)	Intel® Xeon® processor E5-2600 v4 family (max. 2x22 cores / 3.50 GHz)	Intel® Xeon® processor E5-2600 v4 family (max. 22 cores / 3.50 GHz) Intel® Xeon® processor E5-1600 v4 family (max. 8 cores / 3.70 GHz)
Operating System (pre-installed)	Windows 10 Pro Windows 7 Professional (available through downgrade rights from Windows 10 Pro)	Windows 10 Pro Windows 7 Professional (available through downgrade rights from Windows 10 Pro)	Windows 10 Pro Windows 7 Professional (available through downgrade rights from Windows 10 Pro)	Windows 10 Pro Windows 7 Professional (available through downgrade rights from Windows 10 Pro)
Memory	Up to 64 GB, 4 UDIMM memory slots, non-ECC/ECC, DDR4 - 2,400 MHz	Up to 256 GB, ECC, 8 DIMM memory slots DDR4 - 2,400 MHz	Up to 1024 GB, ECC, 16 DIMM memory slots (8 per processor), DDR4 - 2,400 MHz	Up to 512 GB, ECC, 8 DIMM memory slots DDR4 - 2,400 MHz
Professional Graphics Cards	Up to 1x graphic card: NVIDIA® Quadro®: up to P4000 (VR-ready) AMD FirePro™ W2100	Up to 2x graphics cards: NVIDIA® Quadro®: up to P6000 (VR-ready) AMD FirePro™: up to W7100	Up to 3x graphics cards: NVIDIA® Quadro®: up to P6000 (VR-ready) AMD FirePro™: up to W7100	1x graphic card (double-height) or 2x graphics cards (single height): NVIDIA® Quadro®: up to P6000 (VR-ready) AMD FirePro™: up to W7100
Compute Cards		NVIDIA® Tesla® K40	NVIDIA® Tesla®: up to K80; M60	NVIDIA® Tesla®: up to K80; M60
Storage	PCIe-SSD M.2 module (Standard, Highend) PCIe-SSD NVMe (Highend) SSD SATA (Standard, High Endurance, SED) SSHD and HDD SATA (Standard, Business Critical, Enhanced Availability)	PCIe-SSD M.2 NVMe module (Standard, Highend) SSD SATA (Standard, High Endurance, SED) SSHD HDD SATA (Standard, Business Critical, Enhanced Availability) HDD SAS	PCIe-SSD M.2 NVMe module (Standard, Highend) SSD SATA (Standard, High Endurance, SED) SSHD HDD SATA (Standard, Business Critical, Enhanced Availability) HDD SAS	PCIe-SSD M.2 NVMe module (Standard, Highend) SSD SATA (Standard, High Endurance, Mainstream, SED) HDD SATA (Business Critical, Enhanced Availability) DOM SATA enterprise HDD SAS
Drive bays	7 in total: 5x internal, 2x external 1 x M.2-2280 on mainboard (for PCIe modules)	12 in total (8x internal, 4x external)	12 in total (8x internal, 4x external)	5 in total (4x internal, 1x external)
Slots	4 in total: 2x PCIe 3.0 x1 1x PCIe 3.0 x4 (mech. x16) 1x PCIe 3.0 x16	7 in total: 2 x PCI-Express 3.0 x16 1 x PCI-Express 3.0 x4 (mech. x16) 1 x PCI-Express 3.0 x4 (mech. x8) 1 x PCI-Express 2.0 x4 (mech. x16) 2 x PCI-Express 2.0 x1 (mech. x8)	8 in total: 4 x PCI-Express 3.0 x16 1 x PCI-Express 3.0 x8 1 x PCI-Express 3.0 x8 (internal) 1 x PCI-Express 2.0 x4 (mech. x16) 1 x PCI-Express 2.0 x1 (mech. x8)	3 in total: 1 x PCI-Express 3.0 x16 - 1 x double slot density or 2 x single slot density 1 x PCI-Express 3.0 x8 (mech. x16) - single slot density
USB	14 in total (6x USB 2.0, 7x USB 3.1 Gen1; optional USB 3.1 Gen2 via add on card)	13 in total (9x USB 2.0, 4x USB 3.1 Gen1)	13 in total (9x USB 2.0, 4x USB 3.1 Gen1)	4 in total (2x USB 2.0, 2x USB 3.0)
Serial ATA	8	10	10	6
Interface cards	Gigabit Ethernet PCIe x1, DS eSATA Interface Dual serial card PCIe x1	Gigabit Ethernet PCIe x1, DS eSATA Interface Dual serial card PCIe x1 Dual 10Gigabit Ethernet PCIe x8	Gigabit Ethernet PCIe x1, DS eSATA Interface Dual serial card PCIe x1 Dual 10Gigabit Ethernet PCIe x8	Gigabit Ethernet PCIe x1, DS Dual 10Gigabit Ethernet PCIe x8
Power Supply	Max. 400 W - max 92% efficiency	M740: 600 W - max. 90% efficiency M740power: 1000 W - max. 90% efficiency	R940: 1000 W - max. 90% efficiency R940power: 1300 W - max. 90% efficiency	800 W - max. 94% efficiency
Others	Made in Germany VR-ready	Made in Germany M740power: Medical EMC standard IEC60601-1-2 M740 Long Lifecycle: limited component offering, min. 36 months lifecycle VR-ready	Made in Germany VR-ready	Made in Germany VR-ready