




Fujitsu recommends Windows 10 Pro.

FUJITSU Workstation CELSIUS

Choose the right hardware to accelerate the software application



 <p>Mobile Workstation Elegant. Mobile. Power.</p> <p>CELSIUS H: H760 - 15.6" UHD (4K) & Full HD incl. optional PalmSecure™</p>	 <p>Desktop Workstation Develop, Simulate, Calculate and Visualize your Ideas</p> <p>CELSIUS J: J550 (small form factor) CELSIUS W: W550, W550 Long Lifecycle CELSIUS M: M740, M740 Long Lifecycle CELSIUS R: R940 (dual-processor)</p>	 <p>Rack Workstation Ideal for a 1:1 remote access solution</p> <p>CELSIUS C: C740 (1U rack workstation)</p>
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APPLICATION FIELDS	USAGE SCENARIO	TYPICAL INDUSTRIES	SOFTWARE	TOP REQUIREMENTS	PRODUCTS
CAD Computer Aided Design	2D and 3D technical drawing of physical objects, parts and assemblies (Product design, industrial design, modelling, model analysis)	All manufacturers: • Automotive, Aerospace, etc.	<ul style="list-style-type: none"> Autodesk (AutoCAD, Inventor) Dassault Systèmes (CATIA, 3DEXCITE, DeltaGen, SOLIDWORKS) Siemens PLM (NX, Teamcenter) PTC (Creo Parametric) 	<ul style="list-style-type: none"> Single-threaded app => high processor frequencies Fast flash drives Moderate storage capacity Open GL graphics 	CELSIUS H CELSIUS J, W, M CELSIUS C
CAE, SIM Computer Aided Engineering & Simulation	Mechanical, thermal and fluid simulations Electronic design simulation	All industries	<ul style="list-style-type: none"> ANSYS (Fluent, CFX, Mechanical) Autodesk (Revit, Moldflow) Dassault Systèmes (SIMULIA) MSC Software (Nastran, Patran) Siemens PLM (Tecnomatix, FiberSIM) 	<ul style="list-style-type: none"> Multi-threaded app => high number of cores Fast flash drives Maximum memory High storage capacity Compute GPUs & 3D graphics 	CELSIUS M & R CELSIUS C
AEC Architecture, Engineering and Construction	3D planning and construction of buildings, factories and infrastructure	<ul style="list-style-type: none"> Plants Shipbuilding & Offshore industries Tunnels and bridges Urban planning 	<ul style="list-style-type: none"> Autodesk (AutoCAD, Revit) AVEVA Bentley (Microstation) Hexagon (Geosystems, Metrology) Nemetschek (Allplan) Trimble (Sketchup Pro, Tekla BIMsight) 	<ul style="list-style-type: none"> Single-threaded app => high numbers of cores Fast flash drives Moderate storage capacity Open GL graphics 	CELSIUS H CELSIUS J & W CELSIUS C
M&E Media & Entertainment	Content creation, video editing, animation, photo retouching, special effects, design and photorealistic renderings	<ul style="list-style-type: none"> Broadcasting Film and animation studios Agencies Marketing 	<ul style="list-style-type: none"> Adobe (Premiere Pro, After Effects, Photoshop) Autodesk (Maya, 3ds Max, VRED) Avid (Media Composer) Chaos Group (V-Ray) Dassault Systèmes (ICEM Surf Design) 	<ul style="list-style-type: none"> Multi-threaded app => high number of cores Fast flash drives High storage capacity Graphics: 2D and 3D 	CELSIUS H CELSIUS W & M CELSIUS C
GIS, O&G Geographic Information System & Oil and Gas	Geo data collection, processing and visualisation	<ul style="list-style-type: none"> Defense and government Science and research Cartography Transportation 	<ul style="list-style-type: none"> ESRI (ArcGIS) Intergraph (Geomedia) Halliburton (Landmark, Pinnacle) Paradigm (Echos RTM, Tech) Schlumberger (Petrel, ECLIPSE, Omega) 	<ul style="list-style-type: none"> Multi-threaded app => high number of cores Fast flash drives Maximum memory High storage capacity Compute GPUs & 3D graphics 	CELSIUS R CELSIUS M
Healthcare	Visualize and simulate biological and chemical systems Electronic Health & Medical Record (EHR, EMR), Personal Health Record (PHR)	<ul style="list-style-type: none"> Medical product vendors Chemistry and Pharmacology Hospitals Biotechnology and Laboratory Diagnostics 	Mostly in-house developed software like Syngo (Siemens Healthcare) Dassault Systèmes: Simulia	<ul style="list-style-type: none"> Long lifecycle models Whisper quiet Customization (Made4You) 	CELSIUS Long Lifecycle products

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MOBILE WORKSTATIONS

	CELSIUS H
Series	
Model	H760
Form Factor	39.6 cm (15.6-inch) Full HD, UHD/4K
Weight / liter	Weight: 2.75 kg
Noise emission	-
Processor (incl. cores & frequency)	Intel® Core™ i7 vPro™ processor (max. 3.80 GHz) Intel® Core™ i5 vPro™ processor (max. 3.50 GHz) Intel® Xeon® processor E3-1500 v5 family (max. 3.80 GHz)
Operating System	Windows 10 Pro Windows 7 Professional 64-bit
Memory	Up to 64 GB, 4 SO DIMM memory slots, DDR4 - 2,133 MHz
Professional Graphic Cards	NVIDIA® Quadro® M600M: 384 CUDA Cores NVIDIA® Quadro® M1000M: 512 CUDA Cores NVIDIA® Quadro® M2000M: 640 CUDA Cores
Compute Cards	-
Storage	M.2 SSD SATA / PCIe SSHD SATA SSD SATA (incl. FDE) HDD SATA
Drive bays	Modular bay: support for optical drives or 2nd battery Up to 14 hours of battery life (with 2nd battery)
Slots	-
USB	4 in total (1x USB 2.0, 2x USB 3.0, 1x USB Type-C)
Serial ATA	-
Interface cards (optional)	3G (HSPA+) 4G (LTE/HSPA+) WLAN
Power Supply	150 W
Others	Made in Japan Display: anti-glare, magnesium, 300 cd/ m ² Common port replicator with LIFEBOOK/STYLISTIC PalmSecure™: (optional) integrated

DESKTOP WORKSTATIONS

	CELSIUS J	CELSIUS W	CELSIUS M
Series			
Model	J550	W550 (incl. Long Lifecycle model)	M740
Form Factor	Small Form Factor (SFF)	Micro Tower	Midi Tower
Weight / liter	10 liter - single processor	29 liter - single processor	38 liter - single processor
Noise emission	Whisper quiet: 21 dB(A)	Whisper quiet: 19 dB(A)	Whisper quiet: 20 dB(A)
Processor (incl. cores & frequency)	Intel® Xeon® processor E3-1200 v5 family (max. 4 cores / 3.70 GHz) Intel® Core™ i7 vPro™ processor (max. 4 cores / 3.40 GHz) Intel® Core™ i5 vPro™ processor (max. 4 cores / 3.30 GHz) Intel® Core™ i3 processor (max. 2 cores / 3.70 GHz) Intel® HD Graphics P530 or 530	Intel® Xeon® processor E3-1200 v5 family (max. 4 cores / 3.70 GHz) Intel® Core™ i7 vPro™ processor (max. 4 cores / 3.40 GHz) Intel® Core™ i5 vPro™ processor (max. 4 cores / 3.30 GHz) Intel® Core™ i3 processor (max. 2 cores / 3.70 GHz) Intel® HD Graphics P530 or 530	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)
Operating System	Windows 10 Pro Windows 7 Professional 64-bit	Windows 10 Pro Windows 7 Professional 64-bit	Windows 10 Pro Windows 7 Professional 64-bit
Memory	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 - 2,133 MHz	Up to 256 GB, ECC, 8 DIMM memory slots DDR4 - 2,400 MHz
Professional Graphic Cards	Full height graphics cards: NVIDIA® NVS®: up to 510 NVIDIA® Quadro®: up to M2000 AMD FirePro™: up to W5100	NVIDIA® NVS®: up to 510 NVIDIA® Quadro®: up to M4000 AMD FirePro™: up to W7100	Up to 2 ultra-high-end graphics cards NVIDIA® NVS®: up to 510 NVIDIA® Quadro®: up to M6000 AMD FirePro™: up to W9100
Compute Cards	-	-	NVIDIA® Tesla® K40, M60
Storage	SSD PCIe (Highend card, M.2 Highend) SSD SATA (High Endurance, M.2 Highend, Mainstream, SED, SSHD) HDD SATA (Standard, Business Critical, Enhanced Availability)	SSD PCIe (Highend card, M.2 Highend) SSD SATA (Standard, High Endurance, SED) SSHD HDD SATA (Standard, Business Critical, Enhanced Availability)	SSD PCIe (Highend card) SSD SATA (Standard, High Endurance) SSHD, HDD SAS HDD SATA (Standard, Business Critical, Enhanced Availability)
Drive bays	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 modules)	12 in total (8x internal, 4x external)
Slots	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	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)
USB	11 in total (2x USB 2.0, 9x USB 3.0)	13 in total (6x USB 2.0, 7x USB 3.0)	13 in total (9x USB 2.0, 4x USB 3.0)
Serial ATA	5	6	10
Interface cards (optional)	Parallel Interface Gigabit Ethernet PCIe x1, DS eSATA Interface Dual serial card PCIe x1	Parallel Interface 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
Power Supply	280 W Max. 92% efficiency	W550: 300 W - max. 92% efficiency W550power: 500 W - max. 93% efficiency	M740: 600 W - max. 90% efficiency M740power: 1000 W - max. 90% efficiency
Others	Made in Germany	Made in Germany W550power Long Lifecycle model: limited component offering, min. 36 months lifecycle	Made in Germany M740power: Medical EMC standard IEC60601-1-2 M740 Long Lifecycle model: limited component offering, min. 36 months lifecycle

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	DESKTOP WORKSTATIONS	RACK WORKSTATIONS
Series	CELSIUS R	CELSIUS C
Model	R940	C740
Form Factor	Big Tower	1U
Weight / liter	49 liter - dual processor	Single processor
Noise emission	Whisper quiet: 23 dB(A)	-
Processor (incl. cores & frequency)	Intel® Xeon® processor E5-2600 v4 family (max. 2x22 cores / 3.50 GHz)	Intel® Xeon® processor E5-2600 v4 family (max. 22 cores / 2.60 GHz) Intel® Xeon® processor E5-1600 v4 family (max. 8 cores / 3.70 GHz)
Operating System	Windows 10 Pro Windows 7 Professional 64-bit	Windows 10 Pro Windows 7 Professional 64-bit
Memory	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 Graphic Cards	Up to 3 ultra-high-end graphics cards NVIDIA® NVS®: up to 510 NVIDIA® Quadro®: up to M6000 AMD FirePro™: up to W9100	NVIDIA® NVS®: up to 510 NVIDIA® Quadro®: up to M6000 AMD FirePro™: up to W9100
Compute Cards	NVIDIA® Tesla®: up to K80, M60	NVIDIA® Tesla®: up to K80, M60
Storage	SSD PCIe (Highend card) SSD SATA (Standard, High Endurance, Mainstream) SSHD, HDD SAS HDD SATA (Standard, Business Critical, Enhanced Availability)	SSD PCIe (Highend card, M.2 Highend) SSD SATA (Standard, High Endurance, Mainstream, SED) DOM SATA enterprise HDD SAS HDD SATA (Business Critical, Enhanced Availability)
Drive bays	12 in total (8x internal, 4x external)	5 in total (4x internal, 1x external)
Slots	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. x 16) - single slot density
USB	13 in total (9x USB 2.0, 4x USB 3.0)	4 in total (2x USB 2.0, 2x USB 3.0)
Serial ATA	10	6
Interface cards	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	R940: 1000 W - max. 90% efficiency R940power: 1300 W - max. 90% efficiency	800 W - max. 94% efficiency
Others	Made in Germany	Made in Germany

Optimized
For ISV
Applications



Fujitsu -
Your
Workstation
Partner

FUJITSU