

Fujitsu recommends Windows 10 Pro.

Data Sheet

FUJITSU Workstation CELSIUS W580

Mini CAD Powerhouse

If you thought you would need to sacrifice performance, expandability, price or energy efficiency in a microtower design – think again. As an industry first, the FUJITSU CELSIUS W580 desktop workstation goes far and beyond with its innovative 21 liter, space-saving microtower design.

No compromise in terms of performance, expandability and price

Designed with CAD customers in mind: performance, reliability and great flexibility - at an affordable price

- Choose between the energy-efficient Intel® Core™ processors or the powerful Intel® Xeon® E-2200 processor family
- Support of Windows 10 Pro
- 64 GB DDR4 2,666 MHz memory (incl. ECC)
- Maximum capacity of 16 TB
- Boost your storage performance with super-fast PCIe SSDs

Industry's smallest VR-ready desktop workstation

Innovative space-saving design - made in Europe

- An industry first: 21 liter desktop microtower workstation
- NVIDIA® Quadro® RTX 4000 VR-ready graphics (with CELSIUS W580power)
- Optimized thermal management and cooling solutions
- Enjoy a silent workplace environment thanks to low noise emission of only 18 dB(A)

Multi-monitor experience

Ideal for showrooms, control rooms, surveillance or financial services companies

- Up to 8 monitors with the NVIDIA® Mosaic™ technology

2-in-1: Workstation and Point-of-Sales device

Your workstation can be deployed as a traditional workstation as well as a point-of-sales device in any retail environment

- Connect your cash drawer and your scanner to two serial ports
- Support of 24/7 operation with reliable high-endurance and business critical drives



Components

Processor

Intel® Xeon® processor E-2288G (8 Cores / 16 Threads, 3.70 GHz, up to 5.0 GHz, 16 MB)
Intel® Xeon® processor E-2286G (6 Cores / 12 Threads, 4.00 GHz, up to 4.9 GHz, 12 MB)
Intel® Xeon® processor E-2278G (8 Cores / 16 Threads, 3.40 GHz, up to 5.0 GHz, 16 MB)
Intel® Xeon® processor E-2276G (6 Cores / 12 Threads, 3.80 GHz, up to 4.9 GHz, 12 MB)
Intel® Xeon® processor E-2274G (4 Cores / 8 Threads, 4.00 GHz, up to 4.9 GHz, 8 MB)
Intel® Xeon® processor E-2246G (6 Cores / 8 Threads, 3.60 GHz, up to 4.8 GHz, 12 MB)
Intel® Xeon® processor E-2244G (4 Cores / 8 Threads, 3.80 GHz, up to 4.8 GHz, 8 MB)
Intel® Xeon® processor E-2236 (6 Cores / 12 Threads, 3.40 GHz, up to 4.8 GHz, 12 MB)
Intel® Xeon® processor E-2234 (4 Cores / 8 Threads, 3.60 GHz, up to 4.8 GHz, 8 MB)
Intel® Xeon® processor E-2226G (6 Cores / 6 Threads, 3.40 GHz, up to 4.6 GHz, 12 MB)
Intel® Xeon® processor E-2224G (4 Cores / 4 Threads, 3.50 GHz, up to 4.7 GHz, 8 MB)
Intel® Xeon® processor E-2224 (4 Cores / 4 Threads, 3.40 GHz, up to 4.6 GHz, 8 MB)
Intel® Xeon® processor E-2186G (6 Cores / 12 Threads, 3.80 GHz, up to 4.7 GHz, 12 MB, Intel® UHD Graphics P630) *
Intel® Xeon® processor E-2174G (4 Cores / 8 Threads, 3.80 GHz, up to 4.7 GHz, 8 MB, Intel® UHD Graphics P630) *
Intel® Xeon® processor E-2146G (6 Cores / 12 Threads, 3.50 GHz, up to 4.5 GHz, 12 MB, Intel® UHD Graphics P630) *
Intel® Xeon® processor E-2144G (4 Cores / 8 Threads, 3.60 GHz, up to 4.5 GHz, 8 MB, Intel® UHD Graphics P630) *
Intel® Xeon® processor E-2136 (6 Cores / 12 Threads, 3.30 GHz, up to 4.5 GHz, 12 MB) *
Intel® Xeon® processor E-2134 (4 Cores / 8 Threads, 3.50 GHz, up to 4.5 GHz, 8 MB) *
Intel® Xeon® processor E-2126G (6 Cores / 6 Threads, 3.30 GHz, up to 4.5 GHz, 12 MB, Intel® UHD Graphics P630) *
Intel® Xeon® processor E-2124G (4 Cores / 4 Threads, 3.40 GHz, up to 4.5 GHz, 8 MB, Intel® UHD Graphics P630) *
Intel® Xeon® processor E-2124 (4 Cores / 8 Threads, 3.30 GHz, up to 4.5 GHz, 8 MB) *
Intel® Core™ i9-9900 processor (8 Cores / 16 Threads, 3.10 GHz, up to 5.0 GHz, 16 GB, Intel® UHD Graphics 630)
Intel® Core™ i9-9900K processor (8 Cores / 16 Threads, 3.60 GHz, up to 5.0 GHz, 16 GB, Intel® UHD Graphics 630)
Intel® Core™ i7-9700 processor (8 Cores / 8 Threads, 3.00 GHz, up to 4.7 GHz, 12 MB, Intel® HD Graphics 630) *
Intel® Core™ i7-9700K processor (8 Cores / 8 Threads, 3.60 GHz, up to 4.9 GHz, 12 MB, Intel® UHD Graphics 630) *
Intel® Core™ i7-8700 processor (6 Cores / 12 Threads, 3.20 GHz, up to 4.6 GHz, 12 MB, Intel® UHD Graphics 630) *
Intel® Core™ i7-8700K processor (6 Cores / 12 Threads, 3.70 GHz, up to 4.7 GHz, 12 MB, Intel® UHD Graphics 630) *
Intel® Core™ i5-9600 processor (6 Cores / 6 Threads, 3.10 GHz, up to 4.6 GHz, 9 MB, Intel® UHD Graphics 630) *
Intel® Core™ i5-9500 processor (6 Cores / 6 Threads, 3.00 GHz, up to 4.4 GHz, 9 MB, Intel® UHD Graphics 630) *
Intel® Core™ i5-8600 processor (6 Cores / 6 Threads, 3.10 GHz, up to 4.3 GHz, 9 MB, Intel® UHD Graphics 630) *
Intel® Core™ i5-8500 processor (6 Cores / 6 Threads, 3.00 GHz, up to 4.1 GHz, 9 MB, Intel® UHD Graphics 630) *
Intel® Core™ i3-9100 processor (4 Cores / 4 Threads, 3.60 GHz, up to 4.2 GHz, 6 MB, Intel® HD Graphics 630) *
Intel® vPro® Platform with all Intel® Xeon® processors
No Intel® vPro® technology with Intel® Core™ i5 and Core™ i7 processors
*with Intel® Turbo Boost Technology 2.0 (clock speed and performance will vary depending on workload and other variables)

Operating systems

Operating system pre-installed	Windows 10 Pro for Workstations	Windows 10 Pro for Workstations
	Windows 10 Pro. Fujitsu recommends Windows 10 Pro for business.	Windows 10 Pro. Fujitsu recommends Windows 10 Pro for business.
Operating system compatible	Windows 10 Home	Windows 10 Home
	Linux	Linux

Operating systems**Operating system notes**

Certified for Red Hat® Enterprise Linux
 Certified for SUSE Enterprise Desktop
 Certified for SUSE Enterprise Server

For some configurations third party drivers are currently not available or configuration restrictions may apply.

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 <http://support.ts.fujitsu.com>.

Certified for Red Hat® Enterprise Linux
 Certified for SUSE Enterprise Desktop (pending)
 Certified for SUSE Enterprise Server (pending)

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Memory modules

4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,666 MT/s, UDIMM

8 GB (1 module(s) 8 GB) DDR4, unbuffered, ECC, 2,666 MT/s, UDIMM

8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,666 MT/s, UDIMM

16 GB (1 module(s) 16 GB) DDR4, unbuffered, ECC, 2,666 MT/s, UDIMM

16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,666 MT/s, UDIMM

Graphics

High-end 3D: AMD Radeon™ Pro WX 7100 , 8 GB, PCIe x16, 4 x DisplayPort

High-end 3D: NVIDIA® Quadro® RTX 4000, 8 GB, PCIe x16, 3 x DisplayPort, 1 x Virtual Link

High-end 3D: NVIDIA® Quadro® P4000, 8 GB, PCIe x16, 4 x DisplayPort

Midrange 3D: NVIDIA® Quadro® P2200, 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 Dual Card, PCIe x1, 2 x miniDP, PCoIP

Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4 x miniDP, PCoIP

Others: VGA Extension Card

Others: DP to DVI-D (single link) Adapter Cable

Others: MiniDP to DP Adapter Cable

Notes

NVIDIA® Quadro® P4000 requires CELSIUS W580power or CELSIUS W580power+.

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, 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
	RAID1 Bundle 2x512GB M.2 NVMe Highend
	RAID1 Bundle 2x256GB M.2 NVMe Highend
	SSD PCIe, 1024 GB M.2 NVMe module
	SSD PCIe, 512 GB M.2 NVMe module
	SSD PCIe, 256 GB M.2 NVMe module
	SSD PCIe, 1024 GB M.2 NVMe module, SED
	SSD PCIe, 512 GB M.2 NVMe module, SED
	SSD PCIe, 256 GB M.2 NVMe module, SED
	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
	HDD SATA III, 7,200 rpm, 6,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 4,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-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, 2,000 GB, 3.5-inch
HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch	
HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch	
Hard disk notes	<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>SSHHD (Solid State Hard Disk, Hybrid drive)</p> <p>SED (Self-Encrypting Drive)</p> <p>SSD (Solid State Disk)</p>
Drives (optional)	BD Triple Writer SATA ultra slim (tray)
	DVD-ROM
	DVD Super Multi
	DVD Super Multi ultra slim (tray)
	MultiCard Reader 24in1 USB 2.0 3.5"

**Interface add on cards/components
(optional)**

Parallel Interface
eSATA Interface
Gigabit Ethernet PCIe x1
Intel 2x1Gb Ethernet Adapter I350-T2
WLAN 802.11ac (2x2) PCIe x1 and BT 5 (dedicated regions only)
WLAN 802.11ac (2x2) PCIe x1 (dedicated regions only)
Dual serial card PCIe x1

Base unit	CELSIUS W580	CELSIUS W580power
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Mainboard

Mainboard type	D3617
Chipset	Intel® C246
Processor socket	LGA 1151
Processor quantity maximum	1
Supported capacity RAM (max.)	64 GB
Memory slots	4 DIMM (DDR4) ECC/non-ECC
Memory frequency	2,666 MT/s
Memory notes	Dual channel support For dual channel performance, 2 memory modules have to be ordered. Capacity per channel has to be the same. 2666 MHz may be clocked down to 2400 MHz depending on processor and memory configuration
LAN	10/100/1,000 MBit/s Intel® I219LM
BIOS version	AMI Aptio V UEFI Specification 2.6
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio type	On board
Audio codec	Realtek ALC671
Audio features	Internal speaker supports audio playback (optional), High Definition audio, 5.1 surround sound

I/O controller on board

Serial ATA total	8
thereof SATA III	8
thereof eSATA	2 (optional)
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI RAID 0/1/5/10

Interfaces

Audio: line-in	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
Internal speakers	1
USB 2.0 total	5
USB 3.1 Gen1 (USB 3.0) total	3
USB 3.1 Gen2 total	5
USB front	2x USB 2.0; 2x USB 3.1 (gen2), 1x USB 3.1 (gen2) Type C; optional: 1x USB 3.1 Type-C (Gen2) via add on card and front adapter bay
USB rear	2x USB 2.0; 3x USB 3.1 (Gen1); 1x USB 3.1 (Gen2); optional: additional 1x USB 3.1 Type C (Gen2) via add on card
USB internal	1x USB 2.0 + 1x USB A 3.1 (Gen2)

Interfaces

VGA	optional: via adapter card
DisplayPort	2
DVI	1 (DVI-D)
Serial (RS-232)	optional: serial port (9pin, 16 byte FIFO, 16550 compatible)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	1 (optional) (25pin with EPP and ECP)
eSATA	1 (optional)
Interface Module notes	Anytime USB charge functionality, USB Typ C connector supports up to 15W

Input device / components

Input devices (optional)	Keyboard Mouse KBPC PX ECO Mouse M440 ECO Space Explorer USB
Drive bays total	6
2.5-inch internal bays	1
3.5-inch internal bays	2
3.5-inch external bays	1
5.25-inch external bays	2
Drive bay notes	5,25" bays: one bay in HH format, one bay for slim optical disc drive only; internal 3.5" bays: 3.5" drive (screwless) or 2.5" drive (screws);
M.2-2280	1 x on mainboard (for PCIe or SATA SSD modules), supports Intel® Optane™ technology

Slots

PCI-Express 3.0 x1	2 x (/) Full height
PCI-Express 3.0 x4 (mech. x16)	1 x (215 mm /) Full height
PCI-Express 3.0 x16	1 x (240 mm /) Full height
Graphics brand name	Intel® HD Graphics P630, Intel® HD Graphics 630
Shared video memory	up to 1,782 MB
TFT resolution (VGA)	1,024 x 768 pixel 1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,600 x 1,200 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel
TFT resolution (DVI)	1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel 1,920 x 1,200 pixel

Compliance

China	CCC (planned) CCC (depending on configuration) CEL (Chinese energy label) TPM 2.0 for China (optional)
Compliance link	https://sp.ts.fujitsu.com/sites/certificates

Additional Software

Additional software (preinstalled)	Adobe® Reader® (pdf reader) McAfee® LiveSafe™ (provides award-winning antivirus protection for your PC and much more. 30 days trial pre-installed) 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) CyberLink PowerDVD BD (playback software for Blu-ray Disc™) CyberLink PowerDVD DVD (playback software for DVD) Nero Essentials XL Microsoft® Office Professional 2019 Microsoft® Office Home and Business 2019 (A Microsoft Account is required to activate each copy of these products. For purchase and activation only in the region in which it was acquired.)

Security

Physical Security	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Cable Cover (optional; covers and secures the ports and cables on rear side)	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Cable Cover (optional; covers and secures the ports and cables on rear side)
System and BIOS Security	Embedded security (TPM 2.0) EraseDisk (optional) Credential Guard Ready and Device Guard Capable (Windows 10, v. 1809; requires 8 GB or more system RAM and SSD PCIe NVME) Boot sector virus protection Write protect option for the Flash EPROM Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces	Embedded security (TPM 2.0) EraseDisk (optional) Credential Guard Ready and Device Guard Capable (Windows 10, v. 1809; requires 8 GB or more system RAM and SSD PCIe NVME) Boot sector virus protection Write protect option for the Flash EPROM 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 Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional) Workplace Protect (secure authentication solution)	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional) Workplace Protect (secure authentication solution)
Workplace Embedded Tools	Auto BIOS Update via Fujitsu Server Auto BIOS Update via customer server Easy PC Protection	Auto BIOS Update via Fujitsu Server Auto BIOS Update via customer server Easy PC Protection

Manageability

Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) WoL (Wake on LAN) iAMT 12.0 (depending on processor)
Manageability software	DeskView Client DeskView Instant BIOS Management
DeskView components	BIOS Management incl. Security Inventory Management Driver Management Alarm Management

Manageability

Supported standards	DMI (Desktop Management Interface) SMBIOS (System Management BIOS) PXE (Preboot Execution Environment) WMI (Windows Management Instrumentation) WBEM (Web Based Enterprise Management) CIM (Common Information Model)
Manageability link	http://www.fujitsu.com/fts/manageability

Miscellaneous

Keyboard on (Special Fujitsu keyboard required)	Keyboard on (Special Fujitsu keyboard required)
Keyboard on with one key (KBPX Eco, KB521)	Thermal management
Keyboard on with 2 keys (CTRL+CTRL) with PS2 or special USB keyboards	Keyboard on with one key (KBPX Eco, KB521)
Keyboard on with any key (USB)	Keyboard on with 2 keys (CTRL+CTRL) with PS2 or special USB keyboards
Thermal management	Keyboard on with any key (USB)
Extended lifetime 24/7 (limited configurations)	Extended lifetime 24/7 (limited configurations)

Warranty

Warranty period	3 years (depending on country)
Warranty type	Bring-In / Onsite Service (for countries within region EMEA, for all other countries depending on local regulations)
Warranty Terms & Conditions	http://www.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/emeia/products/product-support-services/

Recommended Accessories

Display P27-8 TE Pro

The FUJITSU Display P27-8 TE Pro has a 2560 x 1440 QHD resolution and comes with a thin bezel housing ideal for multi-monitor use scenarios. The monitor has a wide viewing angle that delivers consistent picture quality, a 100% sRGB color space coverage, ECO function, DisplayView™ IT Suite manageability software and a range of connectivity options ideal for medium- and large-sized businesses.

Order Code:
S26361-K1609-V140

Display P27-8 TS UHD

The FUJITSU Display P27-8 TS UHD has a 3840 x 2160 Ultra HD resolution ships with a thin bezel housing ideal for multi-monitor use scenarios. The monitor has a 178°/178° wide viewing angle that delivers consistent picture quality, a 100% sRGB color space, ECO function, DisplayView™ IT Suite manageability software and a range of connectivity options ideal for medium- and large-sized businesses.

Order Code:
S26361-K1610-V160

More information

Fujitsu products, solutions & services

In addition to the FUJITSU Workstation CELSIUS W580, 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 the FUJITSU Workstation CELSIUS W580, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/emeia/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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