DATA SHEET

CELSIUS W370 E80+

Issue: November 2009

Your gateway to workstation power

CELSIUS W370 E80+

The CELSIUS W series is the versatile all-round workstation for price-conscious users. Offering entry workstation performance, the CELSIUS W370 is your choice for business segments, such as CAD, digital content creation and finance. The ISV certification process enables workstation users to run their preferred applications with maximum system stability.

Good performance
Higher productivity.
■ State-of-the art processors, graphic cards and hard disk drives

Ergonomics
Quiet system for a pleasant working environment
■ Optimized thermal management, low-noise chassis and silent fans

Flexibility
Suitable for all application areas
■ Excellent flexibility for all tasks

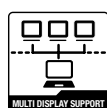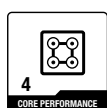### Leading workstation application certification
Maximum compatibility and performance with customer-preferred applications
■ Full support for ISV applications and easy integration into existing IT environments

Built to order
Free configurability for all product lines
■ Customer is given a system optimized for his requirements

intel CORE 2 Quad inside™

Green IT** | 4 CORE PERFORMANCE | PROFESSIONAL GRAPHICS | ISV CERTIFICATION | MULTI DISPLAY SUPPORT | INFORMATION DISPLAY | 24/7 OPERATING MODE | QUIET RUNNING | TWINLOAD

Components

Processor	Intel® Core™2 Quad processor Q9650 (Quad Core, 3.0 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9550 (Quad Core, 2.83 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9505 (Quad Core, 2.83 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9400 (Quad Core, 2.66 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q8300 (Quad Core, 2.5 GHz, 4 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8600 (Dual Core, 3.33 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8500 (Dual Core, 3.16 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8400 (Dual Core, 3.0 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E7500 (Dual Core, 2.93 GHz, 3 MB, 1066 MHz)
	Intel® Core™2 Duo processor E7400 (Dual Core, 2.8 GHz, 3 MB, 1066 MHz)
	Intel® Pentium® processor E5400 (Dual Core, 2.7 GHz, 2 MB, 800 MHz)
	Intel® Pentium® processor E5300 (Dual Core, 2.6 GHz, 2 MB, 800 MHz)
	Intel® Pentium® processor E5200 (Dual Core, 2.5 GHz, 2 MB, 800 MHz)
	Intel® Celeron® processor 450 (Single Core, 2.2 GHz, 512 KB, 800 MHz)
Memory modules	4 GB (1 module(s) 4 GB) DDR2, 800 MHz, PC2-6400, DIMM
	2 GB (1 module(s) 2 GB) DDR2, 800 MHz, PC2-6400, DIMM
	1 GB (1 module(s) 1 GB) DDR2, 800 MHz, PC2-6400, DIMM
Graphics add on cards (optional)	Midrange 3D: NVIDIA® Quadro FX 1800, 768 MB, PCIe x16, DL-DVI-I, 2x DP
	Midrange 3D: NVIDIA® Quadro FX 1700, 512 MB, PCIe x16, 2x DL-DVI-I, HDTV-out
	Midrange 3D: NVIDIA® Quadro FX 580, 512 MB, PCIe x16, DL-DVI-I, 2x DP
	Midrange 3D: NVIDIA® Quadro FX 570, 256 MB, PCIe x16, 2x DL-DVI-I
	Midrange 3D: ATI FirePro™ V5700, 512 MB, PCIe x16, DL-DVI-I, 2x DP
	Midrange 3D: ATI FireGL V5600, 512 MB, PCIe x16, 2x DL-DVI-I
	Entry 3D: NVIDIA® Quadro FX 380, 256 MB, PCIe x16, 2x DL-DVI-I
	Entry 3D: NVIDIA® Quadro FX 370, 256 MB, PCIe x16, DL-DVI-I, SL DVI-I
	Entry 3D: ATI FirePro™ V3700, 256 MB, PCIe x16, 2x DL-DVI-I
	Multi monitor 2D: NVIDIA® Quadro NVS 450, 512 MB, PCIe x1, 4 x DP
	Multi monitor 2D: NVIDIA® Quadro NVS 440, 256 MB, PCIe x1, 4x SL DVI-I
	Multi monitor 2D: NVIDIA® Quadro NVS 290, 256 MB, PCIe x1, 2 x SL DVI-I
	Multi monitor 2D: 2nd NVIDIA® Quadro NVS 290 256MB, , PCIe x1, 2x DL-DVI-I
	Professional 2D: NVIDIA® Quadro NVS 290, 256 MB, PCIe x16, 2 x SL DVI-I
	Professional 2D: Dual DVI Adapter, , PCIe x16,
Hard disk drives (internal)	SSD SATA, 128 GB, 2.5-inch
	SATA II, 10000 rpm, 300 GB, 2.5-inch, S.M.A.R.T.
	SATA II, 10000 rpm, 150 GB, 2.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 750 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. 2.5-inch drives will be mounted in the 3.5-inch bays
Drives (optional)	1.44 MB Floppy
	Blu-ray Disc Triple Writer
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 20in1, 3,5-Inch

Interface add on cards/components (optional)

	WLAN III, 802.11g/Draft-n (Windows only)
	WLAN II, 802.11g, 54Mbps (Windows only)
	Parallel Interface
	Modem adapter kit (EU)
	Modem 56k incl. RJ11 modem cable
	Gigabit Ethernet PCIe x1
	FireWire PCI-Card IEEE1394
	eSATA Interface
	Dual serial card, PCI, EX-43092

Base unit	CELSIUS W370 E80+

Mainboard

Mainboard type	D2817
Formfactor	BTX
Chipset	Intel® Q45 Express, Intel® 82801JO ICH10DO
Chipset notes	Intel® vPro™ technology dependent on processor type
Processor socket	LGA 775
Processor quantity maximum	1
Memory slots	4 DIMM (DDR2)
Supported capacity RAM (max.)	16 GB
Memory frequency	800 MHz
Memory notes	In configurations with 4 GB and more the visible memory may be reduced to approximately 3.5 GB or less (for 32-bit operating systems) and configurations with 8 GB the visible memory may be reduced to approximately 7.5 GB or less (depending on system configuration).
LAN	Built-in 10/100/1000 MBit/s Intel® 82567LM
WLAN	Optional (for Windows only)
Audio codec	Realtek ALC663
Audio features	5.1 surround sound, High Definition audio, Internal speaker supports audio playback

I/O Controller

Serial ATA total	6
thereof eSATA	1, optional
SATA RAID support	0, 1, 10, 5, 50

Interfaces

Audio: in (rear)	2
Audio: out (rear)	1
DVI	1 or 2, optional
eSATA	1, optional
Ethernet (RJ-45)	1
Front Audio: in	1
Front Audio: out	1
Internal speakers	1
Mouse / Keyboard (PS/2)	2
Parallel	1, optional
Serial (RS-232)	1, (9 pin)
USB front	2
USB internal	2
USB rear	8
USB 2.0 total	12
VGA	1

Drive bays

Drive bays total	8
3.5-inch internal bays	4
3.5-inch external bays	2

Drive bays

5.25-inch external bays	2

Slots

PCI-Express x16	1 x (312 mm) full height
PCI-Express x4 (mech. x8)	1 x (190 mm) full height
PCI-Express x1	1 x (300 mm) full height
PCI (32-bit / 33 MHz)	4 x (312 mm)

Graphics on board

Graphics brand name	Intel® GMA 4500
Shared video memory	up to 256 MB
Refresh rate 1024 x 768 (recommended / max.)	85 Hz /
Refresh rate 1280 x 1024 (recommended / max.)	85 Hz /
Refresh rate 1600 x 1200 (recommended / max.)	85 Hz /
TFT resolution (VGA)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size Resolution (color depth up to 32 Bit/pixel) For TFT we recommend to using 60Hz.

Electrical values

Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Max. output of power supply	300 W
Monitor outlet	Switched (optional)

Noise for standard configuration (HDD, ODD, FDD)

Noise emission	According to ISO9296 (LpAm at bystander position)
Idle mode	18 dB(A)
Office mode	18 dB(A)
Noise notes / description	Noise emissions may vary depending on actual configuration

Dimensions / Weight / Environmental

Dimension (W x D x H)	203 x 426 x 442 mm
Operating position	Vertical / horizontal
Weight	16 kg
Weight notes	Weight may vary depending on actual configuration
Operating ambient temperature	15 - 35°C
Operating relative humidity	10 - 75 %

Compliance

Product	CELSIUS W370 E80+
Model	MTB-D2817
Germany	GS
Europe	CE
USA/Canada	cCSAus FCC Class B
Global	RoHS (Restriction of hazardous substances) Medical certification IEC60601-1-2 in combination with medical kit ENERGY STAR® 4.0 ENERGY STAR® 5.0

Compliance

Compliance notes	Energy Star compliance may vary depending on actual configuration
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Security

Physical security	Kensington Lock support Eye for padlock Seal option Intrusion switch Optional: Integrated cabinet lock
System security	Write protect option for the Flash EPROM Embedded security (TPM 1.2) - Infineon Disable / Hide TPM option
User security	Hard disk password User and supervisor BIOS password Optional: Access protection via internal SmartCard reader Optional: SmartCase Logon+

Operating system

Operating system optional preinstalled	Microsoft® Windows® 7 Professional 64-bit Microsoft® Windows® 7 Professional 32-bit Microsoft® Windows® 7 Home Premium Microsoft® Windows Vista® Business 64-bit Microsoft® Windows Vista® Business 32-bit
Operating system compatible	Microsoft® Windows® XP Professional x64 Edition Microsoft® Windows® XP Professional Linux
Operating system notes	RedHat / Novell certification pending For some configurations third party drivers are currently not available or configuration restrictions may apply.

Additional Software

Additional software (optional)	Drivers & Utilities DVD (DUDVD) Windows® 7 & Vista & XP Recovery DVD TwinLoad Windows® XP downgrade pack
Additional software (included as a CD/DVD)	Norton Internet Security (incl. Firewall)

Manageability

Manageability features	Intel® vPro™ technology iAMT Intel® Active Manageability Technology v5.0 (not activated, not set up, for Windows XP Professional and Windows Vista Business only)
Manageability type	DeskView 10
Manageability link	http://ts.fujitsu.com/manageability

Input device / components

	Optical USB tilt wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse Space Explorer USB Space Navigator USB Space Pilot USB

Warranty

Service level	(depending on country)

Maintenance and Support Services - the perfect extension

Recommended Service	5x9, Response Time: Next Business Day
Service Weblink	http://ts.fujitsu.com/Supportservice

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:
http://ts.fujitsu.com/aboutus
Take back and Recycling information:
http://ts.fujitsu.com/recycling