

# Datasheet FUJITSU Workstation CELSIUS M7010

### Bring Your Ideas To Life

At Fujitsu, we are proud of our engineering capabilities which allowed us to optimize the CELSIUS M7010 to combat today's professional and technical challenges making it the ideal desktop workstation for computer-aided engineering area as well as demanding media & entertainment applications.

#### Performance you can count on

Spectrum of performance due to a wide range of professional grade features

- Powerful Intel® Xeon® Processor W Family
- Support of Windows 10 Pro for Workstations
- Support of up to 512 GB DDR4 2,933 memory
- Fujitsu SSD PCle card (up to 2 x 2 TB)

#### Smart security

Human centric innovation meets security

- Optional security lock (side door and front access)
- Intrusion detector sensor integrated into the power supply
- USB keyboard with integrated PalmSecure™: Easy log-on with the help of your palm veins

#### Ultimate usability and easy access

Engineering excellence

- Cable-free design and green touchpoints
- Cold-plug technology: Storage accessible via a front disk tray

#### Dual GPU, VR-ready workstation

Enjoy a fully immersive and real-time virtual reality experience with low latency at high frame rates

- Intel® vPro processors with up to 4.60 GHz frequency
- Professional graphics cards from NVIDIA (up to NVIDIA® Quadro RTX™ 8000)

#### Made in Japan

Quality you can trust

- Comprehensive testing in certified in-house laboratories for 24/7 operation
- Intelligent tri-channel thermal management







# Components

	CELSIUS M7010	CELSIUS M7010 Power
Processor	Intel® Xeon® processor W-2223 (4 Cores, 3.60 GHz, up Intel® Xeon® processor W-2225 (4 Cores, 4.10 GHz, up Intel® Xeon® processor W-2235 (6 Cores, 3.80 GHz, up Intel® Xeon® processor W-2245 (8 Cores, 3.90 GHz, up Intel® Xeon® processor W-2255 (10 Cores, 3.70 GHz, up Intel® Xeon® processor W-2265 (12 Cores, 3.50 GHz, up Intel® Xeon® processor W-2275 (14 Cores, 3.30 GHz, up Intel® Xeon® processor W-2295 (18 cores, 3.00 GHz, up Intel® Xeon® processor W-2295 (18 cores, 3.00 GHz, up Intel® YPro® technology	to 4.6 GHz) to 4.6 GHz) to 4.5 GHz) o to 4.5 GHz) o to 4.6 GHz) o to 4.6 GHz)
Operating systems		
Operating system pre-installed	Windows 10 Pro for Workstations	Windows 10 Pro for Workstations
Operating system notes	Certified for Red Hat <sup>®</sup> Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server	Certified for Red Hat <sup>®</sup> Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server
	Windows 10 Support: After the end of the product life FUJITSU will continue to test and support all upcoming Window 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.	Windows 10 Support: After the end of the product life FUJITSU will continue to test and support all upcoming Window 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.
	CELSIUS M7010	CELSIUS M7010 power
Memory modules	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,933 MT/s 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,933 MT/s 32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,933 MT/s	
Graphics	High-end 3D: NVIDIA® Quadro® RTX 4000, 8 GB, PCIe x16, 3x DisplayPort, 1 x Virtual Link	Ultra-high-end 3D: NVIDIA® Quadro® RTX 8000, 48 GB, PCle x16, 4 x DisplayPort, 1 x Virtual Link
	Midrange 3D: NVIDIA® Quadro® P2200, 5 GB, PCIe x16, 4 xDisplayPort	Ultra-high-end 3D: NVIDIA® Quadro® RTX 6000, 24 GB, PCIe x16, 4 x DisplayPort, 1 x Virtual Link
	Entry 3D: NVIDIA® Quadro® P620, 2 GB, PCIe x16, 4 x miniDP	Ultra-high-end 3D: NVIDIA® Quadro® RTX 5000, 16 GB, PCle x16, 4 x DisplayPort, 1 x Virtual Link
	Entry 3D: NVIDIA® Quadro® P400, 2 GB, PCIe x16, 3 x miniDP	High-end 3D: NVIDIA® Quadro® RTX 4000, 8 GB, PCIe x16, 3 x DisplayPort, 1 x Virtual Link
	Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCIe x16, 4 x miniDP	Midrange 3D: NVIDIA® Quadro® P2200, 5 GB, PCIe x16, 4 x DisplayPort
	Others: MiniDP to DP Adapter Cable	Entry 3D: NVIDIA® Quadro® P620, 2 GB, PCIe x16, 4 x miniDP
	Others: DP to DVI-D (single link) Adapter Cable	Entry 3D: NVIDIA® Quadro® P400, 2 GB, PCIe x16, 3 x miniDP
		Entry 3D: NVIDIA® Quadro® P1000, 4 GB, PCIe x16, 4 x miniDP
		Others: MiniDP to DP Adapter Cable
		Others: DP to DVI-D (single link) Adapter Cable



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	CELSIUS M7010	CELSIUS M7010 Power
Hard disk drive	HDD SATA III, 7,200 rpm, 1,000 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, 1,000 GB, 3.5-inch	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 1,000 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, 2,000 GB, 2.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 2,000 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, 4,000 GB, 3.5-inch, business critical HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch	HDD SATA III, 7,200 rpm, 4,000 GB, 3.5-inch, business critical HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch
	SSD PCIe, 1024 GB M.2 NVMe Highend module	SSD PCIe, 1024 GB M.2 NVMe Highend module
	SSD PCIe, 1024 GB M.2 NVMe module	SSD PCIe, 1024 GB M.2 NVMe module
	SSD PCIe, 1x 1024 GB M.2 NVMe card	SSD PCIe, 1x 1024 GB M.2 NVMe card
	SSD PCIe, 1x 2048 GB M.2 NVMe Highend card	SSD PCIe, 1x 2048 GB M.2 NVMe Highend card
	SSD PCIe, 1x 256 GB M.2 NVMe card	SSD PCIe, 1x 256 GB M.2 NVMe card
	SSD PCIe, 1x 256 GB M.2 NVMe Highend card	SSD PCIe, 1x 256 GB M.2 NVMe Highend card
	SSD PCIe, 1x 512 GB M.2 NVMe card	SSD PCIe, 1x 512 GB M.2 NVMe card
	SSD PCIe, 1x 512 GB M.2 NVMe Highend card	SSD PCIe, 1x 512 GB M.2 NVMe Highend card
	SSD PCIe, 1x1024 GB M.2 NVMe Highend card	SSD PCIe, 1x1024 GB M.2 NVMe Highend card
	SSD PCIe, 2048 GB M.2 NVMe Highend module	SSD PCIe, 2048 GB M.2 NVMe Highend module
	SSD PCIe, 256 GB M.2 NVMe Highend module	SSD PCIe, 256 GB M.2 NVMe Highend module
	SSD PCIe, 256 GB M.2 NVMe module SSD PCIe, 2x 1024 GB M.2 NVMe card	SSD PCIe, 256 GB M.2 NVMe module SSD PCIe, 2x 1024 GB M.2 NVMe card
	SSD PCIe, 2x 1024 GB M.2 NVMe taid SSD PCIe, 2x 1024 GB M.2 NVMe Highend card	SSD PCIe, 2x 1024 GB M.2 NVMe Card SSD PCIe, 2x 1024 GB M.2 NVMe Highend card
	SSD PCIe, 2x 2048 GB M.2 NVMe Highend card	SSD PCIe, 2x 2048 GB M.2 NVMe Highend card
	SSD PCIe, 2x 256 GB M.2 NVMe card	SSD PCIe, 2x 256 GB M.2 NVMe card
	SSD PCIe, 2x 256 GB M.2 NVMe Highend card	SSD PCIe, 2x 256 GB M.2 NVMe Highend card
	SSD PCIe, 2x 512 GB M.2 NVMe card	SSD PCIe, 2x 512 GB M.2 NVMe card
	SSD PCIe, 2x 512 GB M.2 NVMe Highend card	SSD PCIe, 2x 512 GB M.2 NVMe Highend card
	SSD PCIe, 512 GB M.2 NVMe Highend module	SSD PCIe, 512 GB M.2 NVMe Highend module
	SSD PCIe, 512 GB M.2 NVMe module	SSD PCIe, 512 GB M.2 NVMe module
	SSD SATA III, 1024 GB, 2.5-inch	SSD SATA III, 1024 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch, SED	SSD SATA III, 256 GB, 2.5-inch, SED
	SSD SATA III, 512 GB, 2.5-inch SSD SATA III, 512 GB, 2.5-inch, SED	SSD SATA III, 512 GB, 2.5-inch SSD SATA III, 512 GB, 2.5-inch, SED
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard dis 24/7 ready (Business Critical HDDs or SAS HDDs or High Endurance Up to 20 GB of HDD space is reserved for system recovery.  SED (Self-Encrypting Drive)  SED (Seld-Encrypting Drive)	
	SSD (Solid State Disk)	W. L. 10.D. C. W. L
Operating system ore-installed	Windows 10 Pro for Workstations	Windows 10 Pro for Workstations
Operating system	Certified for Red Hat® Enterprise Linux	Certified for Red Hat <sup>®</sup> Enterprise Linux
notes	Certified for SUSE Enterprise Desktop	Certified for SUSE Enterprise Desktop
	Certified for SUSE Enterprise Server	Certified for SUSE Enterprise Server
	Windows 10 Support: After the end of the product life	Windows 10 Support: After the end of the product life
	FUJITSU will continue to test and support all upcoming	FUJITSU will continue to test and support all upcoming
	Window 10 releases for a period of maximum 5 years –	Window 10 releases for a period of maximum 5 years –
	depending on the available extension of hardware	depending on the available extension of hardware
		services through FUJITSU Warranty top ups. For details,
	services through FUJITSU Warranty top ups. For details,	
	please see "FUJITSU Service Statement for Windows 10	please see "FUJITSU Service Statement for Windows 10
	Semi-Annual-	Semi-Annual-
	Channel Support" at http://support.ts.fujitsu.com.	Channel Support" at http://support.ts.fujitsu.com.
	CELSIUS M7010	CELSIUS M7010 power
Optical drive	MultiCard Reader 24in1 USB 2.0 3.5", USB 2.0	MultiCard Reader 24in1 USB 2.0 3.5", USB 2.0
	DVD-ROM DVD Sugges Adult: SATA	DVD-ROM
	DVD Super Multi, SATA	DVD Super Multi, SATA
	DVD Super Multi ultra slim (tray), SATA	DVD Super Multi ultra slim (tray), SATA
CCL LCAC C II	BD Triple Writer SATA ultra slim (tray), SATA	BD Triple Writer SATA ultra slim (tray), SATA
SCSI / SAS Controller	LSI RAID Ctrl SAS 1GB (D3216) RAID 5/6 Ctrl. 12 Gbit/s 8 ports int.	
	LSI RAID Ctrl SAS (D3327) RAID 0/1 Ctrl. 12 Gbit/s 8 ports int.	
	Intel VROC HW key Standard M.2	
	, , , , , , , , , , , , , , , , , , ,	



	CELSIUS M7010	CELSIUS M7010 Power
Interfaces add on cards/ components	WLAN 802.11ac (2x2) PCIe x1 and BT 5, SRD 5.8GHz (dedicated regions only) PLAN EP X550-T2 2x10GBASE-T Intel 2x1Gb Ethernet Adapter I350-T2 Gigabit Ethernet PCIex1	WLAN 802.11ac (2x2) PCIe x1 and BT 5, SRD 5.8GHz (dedicated regions only) PLAN EP X550-T2 2x10GBASE-T Intel 2x1Gb Ethernet Adapter I350-T2 Gigabit Ethernet PCIex1
Mainboard	Dual serial card PCIe x1	Dual serial card PCIe x1
Mainboard type	D3498-A2	
Formfactor	Extended ATX	
Chipset	Intel® C422	
Processor socket	Socket R4	
Processor quantity maximum	1	
Supported capacity RAM (max.)	512 GB	
Memory slots	8 DIMM (DDR4) ECC	
Memory frequency	2,933 MT/s	
Memory notes	4 memory channels supporting up to 2 DIMMs per channel. For quad channel, a minimum of 4 memory modules has to be ordered and the capacity per channel has to be the same.  DDR4 2,933 MHz may be clocked down to 2,666 or 2,400 or 2,133 depending on the processor	
LAN	10/100/1,000 Mbit/s intel® I219LM	
BIOS version	AMI Aptio V	
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)	
Audio type	On board	
Audio type Audio codec	Realtek ALC671	
Audio features	High Definition Audio	
	riigii beriiittoii Audio	
I/O controller on board		
Serial ATA total	8	
thereof SATA III	8	
thereof eSATA	Cartal ATA III/C Chris	
Controller functions	Serial ATA III(6 Gbit) NCQ AHCI RAID 0/1/5/10	
Interfaces	INAID OF ITSETO	
Audio: in (rear)	1	
Audio: out (rear)	1	
Audio: out (lear) Audio: in	1	
Audio: nit	1	
Internal speakers	1	
USB 2.0 total	2 optional via front panel	
USB 3.1 Gen1 (USB 3.0) total	6	
USB 3.1 Gen2 total	2 optional via front panel	
USB front	2x USB 2.0; 2x USB 3.1 (Gen1); optional 2x USB 3.1 Ty	ne-C (Gen2) instead of 2x HSR 2 N
USB rear	6	pe = (30.12) 115.000 01 2A 030 2.0
USB internal	3, thereof 1 type A	
Ethernet (RJ-45)	1	
eSATA	1 (optional)	
Interfaces	. (	
Interfaces Interface Module notes	Anytime USB charge functionality	
Drive bays	, any anne 050 charge functionality	
Drive bays total	7	
2.5-inch internal bays	4	
3.5-inch internal bays	4	
a a multiplicated Days	1	
•	•	
3.5-inch external bays	1	
3.5-inch external bays 5.25-inch external bays	Total (v 3.5 inch/) 5 inch Dick Tray front accessible (v	with Cold plug accoss?
3.5-inch external bays 5.25-inch external bays Drive bay notes	1 Total 4x 3.5-inch/2.5-inch Disk Tray front accessible (w	vith Cold-plug access)
3.5-inch external bays 5.25-inch external bays	Total 4x 3.5-inch/2.5-inch Disk Tray front accessible (w 1 x on mainboard (for PCIe SSD modules)	rith Cold-plug access)



DCL Everess 2.0 v/	2 v /2/0 mm/ 12 20 inch) [::!! bai-bb	
PCI-Express 3.0 x4	2 x (340 mm/ 13.39 inch) Full height	
PCI-Express 3.0 x8	1 x (200 mm) Full height	
PCI-Express 3.0 x16	2 x (340 mm/ 13.39 inch) Full height	
Base unit	CELSIUS M7010	CELSIUS M7010 power
Electrical values		
Power consumption note	225 W depending on configuration	400 W depending on configuration
Rated voltage range	100 V – 240 V	100 V – 240 V
Rated frequency range	50 Hz – 60 Hz	50 Hz – 60 Hz
Operating voltage range	90 V – 264 V	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz	47 Hz – 63 Hz
Max. output of single power supply	450 W up to 90% efficiency	800 W up to 90% efficiency
Power factor correction/active power	Active	Active
Power supply output	2 graphics power rails (on Mainboard)	2 graphics power rails (on Mainboard)
Noise for standard configuration (HDD,		
Related Processors for noise	140W Thermal Design Power (TDP) Processor	140W Thermal Design Power (TDP) Processor
Standard noise emission	According to ISO 7779:2010, ECMA-74	According to ISO 7779:2010, ECMA-74
Standard noise notes/ description	A-weighted sound power level Lwad (in B)/ Workplace	A-weighted sound power level Lwad (in B)/ Workplace
Standard Hoise Hotes/ description	related A-weighted sound pressure level LpAm (in db(A))	related A-weighted sound pressure level LpAm (in db(A))
Standard noise operation mode: CPU 50% load	3.6 B / 20 dB(A) Bystander position	3.6 B / 20 dB(A) Bystander position
Standard noise operation mode: CPU	3.7 B / 20 dB(A) Bystander position	3.7 B / 20 dB(A) Bystander position
90% load Standard noise operation mode: HDD	3.5 B / 19 dB(A) Bystander position	3.5 B / 19 dB(A) Bystander position
load Standard noise operation mode: Idle mode	3.5 B / 19 dB(A) Bystander position	3.5 B / 19 dB(A) Bystander position
Standard noise operation mode: ODD load	4.5 B / 28 dB(A) Bystander position	4.5 B / 28 dB(A) Bystander position
Standard noise operation mode: Office applications 2.0	3.7 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
Dimensions/ Weight/ Environmental		
Dimensions (W x D x H)	176 x 500 x 433 mm	
Differsions (W X D X H)		
0	6.9 x 19.7 x 17.1 inch	
Operating position	Vertical / horizontal	
Weight	Approx. 18 kg	
Weight (lbs)	Approx. 29.67 lbs	
Weight notes	Actual weight may vary depending on configuration	
Operating ambient temperature	10 – 35 °C (50 – 95 °F)	
Operating relative humidity	5 – 85 % (relative humidity)	
Compliance		
Product	CELSIUS M7010	CELSIUS M7010 power
Model	BM17	
Global	RoHS (EU & China) Microsoft Operating Systems (HCT / HCL entry / WHQL) WEEE (Waste electrical and electronic equipment) ENERGY STAR® 7.0 compliant	
China	CCC (depending on configuration) TPM 2.0 for China (optional)	
Compliance notes	Product Name maybe followed by suffixes	
Compliance link	https://sp.ts.fujitsu.com/sites/certificates	
Additional Software	· · · · · · · · · · · · · · · · · · ·	
Additional software (pre-installed)	Workplace Protect (secure authentication solution)	
Additional software (pre-filstalled)	McAfee® LiveSafe™ (award-winning antivirus protection   Microsoft Office (1 month trial for new Microsoft® Office 3	
Additional software (optional)	Recovery DVD for Windows®	·
.,	Drivers & Utilities DVD for CELSIUS	
	Nero 2019 XL Fujitsu OEM Suite	
	CyberLink PowerDVD DVD (playback software for DVD)	
Base unit	CELSIUS M7010	CELSIUS M7010 power





Security		
Physical Security	Kensington Lock support	Kensington Lock support
,	Eye for padlock	Eye for padlock
	Intrusion switch	Intrusion switch
	Integrated cabinet lock (optional)	Integrated cabinet lock (optional)
System and BIOS Security	Embedded security (TPM 2.0)	Embedded security (TPM 2.0)
	Boot sector virus protection	Boot sector virus protection
	Write protect option for the Flash EPROM	Write protect option for the Flash EPROM
	Control of all USB interfaces	Control of all USB interfaces
	External USB ports can be disabled separately	External USB ports can be disabled separately
	Control of external interfaces	Control of external interfaces
User Security	User and supervisor BIOS password	User and supervisor BIOS password
	Hard disk password	Hard disk password
	Access protection via external SmartCard reader	Access protection via external SmartCard reader
	(optional)	(optional)
	Access protection via internal SmartCard reader	Access protection via internal SmartCard reader
	(optional)	(optional)
	Workplace Protect (secure authentication solution)	Workplace Protect (secure authentication solution)
Workplace Embedded Tools	Auto BIOS Update via Fujitsu Server	Auto BIOS Update via Fujitsu Server
	Auto BIOS Update via customer server (optional)	Auto BIOS Update via customer server (optional)
	Easy PC Protection (optional)	Easy PC Protection (optional)
Manageability		
Manageability technology	DeskUpdate Driver management	
	iAMT 11.6 (depending on processor)	
	PXE 2.1 Boot code	
	Wake up from S5 (off mode)	
	Intrusion switch (optional)	
	WoL (Wake on LAN)	
Manageability software	DeskView Client	
	DeskView Instant BIOS Management	
DeskView components	Inventory Management	
·	BIOS Management	
	Driver Management	
	Security Management	
	Alarm Management	
Supported standards	WMI (Windows Management Instrumentation)	
Supported standards	PXE (Preboot Execution Environment)	
	DMI (Desktop Management Interface)	
	SMBIOS (System Management BIOS)	
	WBEM (Web Based Enterprise Management)	
	CIM (Common Information Model)	
Manageability link	http://www.fujitsu.com/fts/manageability	
Miscellaneous		
	Rack mountable (4U)	Rack mountable (4U)
Spare part availability	5 years	5 years
Packaging information	,	•
Packaging notes	Printed user documentation is bleached in chlorine free	Printed user documentation is bleached in chlorine free
. canaging notes	process	process
Warranty	·	·
Warranty type	Bring-In / Onsite Service (depending on countries)	
randity type	Sing in rousice service (depending on countries)	

# **FUJITSU**

## More information

#### Fujitsu OPTIMIZATION solutions

In addition to Fujitsu Desktop CELSIUS M7010, 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

https://www.fujitsu.com/hk/products/computing/pc/ Software

www.fujitsu.com/software/

#### Contact Us

# HONG KONG Fujitsu Business Technologies Asia Pacific Ltd. Tel: (852) 3910-8228

Email: fpca.hksales@hk.fujitsu.com hk.fujitsu.com/pc

#### INDONESIA

PT Fujitsu Indonesia Tel: (62) 21-570-9330 Email: marketing@id.fujitsu.com id.fujitsu.com/pc

TAIWAN

Fujitsu Taiwan Ltd. Tel: (886) 2-2311-2255 Email: ftl.lifebook@fujitsu.com tw.fujitsu.com/pc

#### More information

To learn more about Fujitsu Desktop CELSIUS M7010, please contact your Fujitsu sales representative, Fujitsu Business partner, or visit our website.

#### 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/



SINGAPORE Fujitsu Asia Pte Ltd.

Tel: (65) 6512-7555 Email: fapl.info@fujitsu.com sq.fujitsu.com/pc

**PHILIPPINES** 

Fujitsu Philippines, Inc. Tel: (63) 2-8841-8488 Email: info.fpi@fujitsu.com ph.fujitsu.com/pc

THAILAND
Fujitsu (Thailand) Co., Ltd.
Tel: (66) 0-2302-1500
Email: info.th@fujitsu.com
th.fujitsu.com/pc

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CHINA Fujitsu (China) Holdings Co., Ltd. – PC China Division

Tel: 86 (21) 58871000-8721 Email: fpcacn.support@cn.fujitsu.com cn.fujitsu.com/pc

MALAYSIA Fujitsu (Malaysia) Sdn. Bhd Tel: (60) 3-8230-4188

Email: askfujitsu.my@fujitsu.com my.fujitsu.com/pc

VIETNAM
Fujitsu Vietnam Limited
Tel: (84-24) 2220-3113
Email: sales-vn@fujitsu.com
vn.fujitsu.com/pc

Note: For countries not listed above, please contact our Hong Kong office.

#### Specification disclaimers

<sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. <sup>2</sup> GB = 1 billion bytes. TB = 1 trillion bytes

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Last Update: 13th May 2021