Fujitsu recommends Windows 11 Pro.

Data Sheet
FUJITSU Desktop ESPRIMO Q7010

Mini PC with excellent performance and integration capabilities

The FUJITSU ESPRIMO Q7010 is an elegant Mini PC which provides excellent performance with high energy efficiency. It can be used for various purposes apart from the standard office usage like for embedded applications, can be VESA mounted for attaching the PC to displays, stands or walls. It provides an experience of a cleaner, quieter workplace with Zero Noise PC function.



An elegant Mini PC with great performance
Eye-catching exclusive modern design
- Fully equipped PC with a volume of ~2.0 liters - based on standard desktop technology
- 10th generation Intel® Core™ processor family
- Features multi-bay concept (DVD option/ Smartcard reader option)



Zero Noise PC
Pleasant working environment due to completely quiet system
- Fan stop in standard operations

Ultimate usability
Various use case scenarios including for special purpose applications
- Can be used for horizontal or vertical operations and easy upgrade of major components
- VESA mount for attaching the PC to displays, stands or walls
- Embedded usage like PoS systems and optional Windows 10 IoT operating system



Feature-rich and highly energy-efficient
Do a lot more with this Mini PC and also get significantly reduced energy bill
- Integrated power supply leads to less than 5 W power consumption in idle-mode
- Ready for future needs with double max. memory size, improved graphics

State-of-the-art security features
Keep your most valuable assets safe - your data
- Integrated Smartcard reader and security front bezel to prevent misuse
- Embedded security (TPM 2.0), Fujitsu Authconductor software, Kensington lock support

Fujitsu recommends Windows 11 Pro.

Components

Operating systems	
Operating system pre-installed	Windows 11 Pro. Fujitsu recommends Windows 11 Pro for business. Windows 11 Home Windows 10 Pro
Operating system compatible	FREE Upgrade to Windows 11* *Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see aka.ms/windows11-spec).
Operating system notes	After the end of the product life Fujitsu will continue to test and support all upcoming Windows 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 General Availability Channel" at https://support.ts.fujitsu.com/IndexProdSupport.asp?lng=com&OpenTab=
Processor	Intel® Core™ i7-11700T processor (8 Cores / 16 Threads, 1.40 GHz, 16 MB, Intel® UHD Graphics 750) **
	Intel® Core™ i7-10700T processor (8 Cores / 16 Threads, 2.00 GHz, 16 MB, Intel® UHD Graphics 630) **
	Intel® Core™ i5-10600T processor (6 Cores / 12 Threads, 2.40 GHz, 12 MB, Intel® UHD Graphics 630) *
	Intel® Core™ i5-10500T processor (6 Cores / 12 Threads, 2.30 GHz, 12 MB, Intel® UHD Graphics 630) *
	Intel® Core™ i5-10400T processor (6 Cores / 12 Threads, 2.00 GHz, 12 MB, Intel® UHD Graphics 630) *
	Intel® Core™ i3-10105 processor (4 Cores / 8 Threads, 3.70 GHz, 6 MB, Intel® UHD Graphics 630) *
	Intel® Core™ i3-10100 processor (4 Cores / 8 Threads, 3.60 GHz, 6 MB, Intel® UHD Graphics 630) *
	Intel® Celeron® processor G5905 (2 Cores / 2 Threads, 3.50 GHz, 4 MB, Intel® UHD Graphics 610)
	Intel® Pentium® Gold G6400 (2 Cores / 4 Threads, 4.00 GHz, 4 MB, Intel® UHD Graphics 610)
	*with Intel® Turbo Boost Technology 2.0 (clock speed and performance will vary depending on workload and other variables) **with Intel® Turbo Boost Max Technology 3.0 (clock speed and performance will vary depending on workload and other variables)
Memory modules	4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, SO DIMM
	8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, SO DIMM
	16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, SO DIMM
	32 GB (1 module(s) 32 GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, SO DIMM
Mass storage 2.5 inch size	SSD SATA III, 512 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch
Mass Storage M.2 technology	SSD PCIe, 1024 GB M.2 NVMe module, SED
	SSD PCIe, 1024 GB M.2 NVMe module
	SSD PCIe, 512 GB M.2 NVMe module, SED
	SSD PCIe, 512 GB M.2 NVMe module
	SSD PCIe, 256 GB M.2 NVMe module, SED
	SSD PCIe, 256 GB M.2 NVMe module
	SSD PCIe, 128 GB M.2 NVMe module
Mass storage 2.5 inch size	HDD SATA III, 5,400 rpm, 2000 GB, 2.5-inch
	HDD SATA III, 5,400 rpm, 1000 GB, 2.5-inch
	HDD SATA III, 5,400 rpm, 500 GB, 2.5-inch
Mass Storage M.2 technology	SSD PCIe, 512 GB M.2 NVMe module (Value)
	SSD PCIe, 256 GB M.2 NVMe module (Value)
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. SSD (Solid State Disk) SED (Self-Encrypting Drive) 2.5-inch bay for devices with 7mm height
Drives (optional)	BD Triple Writer SATA ultra slim (tray)
	DVD Super Multi ultra slim (tray)

Interface add on cards/components (optional)	
	Intel® WI-FI 6 AX200 and Bluetooth 5.1, SRD 5.8GHz (dedicated regions only)

Base unit

Base unit	ESPRIMO Q7010
Mainboard	
Mainboard type	D3813
Formfactor	proprietary
Chipset	Intel® H470
Processor socket	LGA 1200
Processor quantity maximum	1
Supported capacity RAM (max.)	64 GB
Memory slots	2 DIMM (DDR4)
Memory frequency	2,933 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. 2933 MHz may be clocked down to 2400MHz depending on processor and memory configuration
LAN	10/100/1,000 MBit/s Realtek RTL8111H
Integrated WLAN	1 (optional with Bluetooth together)
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 ALC623
Audio features	Internal speaker supports audio playback (optional), High Definition audio
I/O controller on board	
Serial ATA total	2
thereof SATA III	2
Controller functions	Serial ATA III (6 Gbit) NCQ AHCI
Interfaces	
Audio: line-out	1
Front audio: headset	1
USB 2.0 total	4
USB 3.2 Gen1 (5 Gbps) total	4
USB 3.2 Gen2 (10 Gbps) total	3
USB front	2x Type-A USB 3.2 Gen 2; 1x Type-C USB 3.2 Gen 2; supports up to 15W)
USB rear	2x Type-A USB 2.0; 4x Type-A USB 3.2 Gen 1; 1x optional USB 2.0 Type-C (supports DisplayPort 1.4), 1x optional Type-A USB 2.0
VGA	optional
DisplayPort	2
Serial (RS-232)	optional: serial port (9pin, 16 byte FIFO, 16550 compatible)
Ethernet (RJ-45)	1
Interface Module notes	Anytime USB charge functionality
Kensington Lock support	1

Input device / components	
Input devices (optional)	Keyboard Mouse
Drive bays	
Drive bays total	2
2.5-inch internal bays	1
5.25-inch external bays	1
Drive bay notes	5.25" bay: for slim optical disc drive only
M.2-2280	1 x on mainboard for SSD NVMe (PCIe 3.0 x4; up to 32Gbit/s)
Mini PCI slots	
M.2-2230	on mainboard for WLAN module
Graphics on board	
Graphics brand name	Intel® HD Graphics 610, Intel® HD Graphics 630
Shared video memory	Up to half size of total system memory
TFT resolution (VGA)	Up to 1,920 x 1,080 pixel
TFT resolution (DVI)	up to 1,920 x 1,200 pixel
TFT resolution (DisplayPort)	Up to 4,096 x 2,304 pixel
TFT resolution (HDMI)	Up to 4,096 x 2,160 pixel (30 Hz)
Graphics features	Support for up to three independent displays DirectX® 12 HDCP support OpenCL™ 2.1 OpenGL® 4.5 DisplayPort interface supports Ver. 1.4 incl. Multi-Stream Digital audio formats are supported, including Dolby Digital Plus (7.1 channels) DVI-D interface supports audio output if connected to the HDMI interface of a display via suitable adapter cables (not included) Additional I/O connectors configurable, choice of DVI-D HDMI™ VGA USB Type-C™ (supports DisplayPort™ 1.4 and power delivery (PD) up to 15W)
Graphics notes	up to 1 GB dedicated video memory (main memory owned and locked for graphics use) Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz
Electrical values	
Power efficiency note	power supply efficiency (at 230V; 2 Watt/ 10% / 20% / 50% / 100% load) : > 85%/ 90% / 90% / 92% / 92%
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Operating voltage range	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	65 W (integrated in system)
Power factor correction/active power	No (meets input harmonic current according EN61000-3-2)
Power consumption	
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	https://docs.ts.fujitsu.com/dl.aspx?id=6fad9fd1-c59f-472d-a774-e16386b41922
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Related Processors for noise	Intel® Core™ i5-10700T processor and 8GB, ODD, Windows 10 (Tower position)
Standard noise emission	According to ISO 7779:2010, ECMA-74

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Noise emission	
Standard noise notes / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
Standard noise operation mode: CPU 50% load	3.0 B / 17 dB(A) Bystander; 18 dB(A) Operator position (SSD M.2)
Standard noise operation mode: HDD load	3.0 B / 17 dB(A) Bystander; 18 dB(A) Operator position (SSD M.2)
Standard noise operation mode: Idle mode	2.9 B / 16 dB(A) Bystander; 16 dB(A) Operator position (SSD M.2)
Standard noise operation mode: ODD load	4.4 B / 31 dB(A) Bystander; 34 dB(A) Operator position (SSD M.2)
Standard noise operation mode: Office applications 2.0	2.9 B / 16 dB(A) Bystander; 16 dB(A) Operator position (SSD M.2)

Dimensions / Weight / Environmental	
Dimensions (W x D x H)	185 x 190 x 54 mm; with VESA cover: 185 x 190 x 56.2 mm
	7.29 x 7.49 x 2.13 inch
Operating position	Vertical / horizontal (no feet needed)
VESA mount	optional VESA cover (100 mm & 75 mm) e.g. to mount the system at the rear side of a display
Weight	1.6 kg
Weight (lbs)	3.53 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	ESPRIMO Q7010
Model	MPC4
Germany	GS
Europe	CE
USA/Canada	FCC Class B cTUVus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 8.0 EPEAT® Silver (dedicated regions), depending on configuration TCO Certified 9.0
Compliance notes	This product is free of polyvinyl chloride (PVC) when ordered with the optional PVC free power cord
Compliance link	https://sp.ts.fujitsu.com/sites/certificates

Additional Software	
Additional software (preinstalled)	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 2021 Microsoft® Office Home and Business 2021 (Need to buy license to activate the pre-installed Microsoft Office. Purchase and activation only in the region in which it was acquired.)

Security	
Physical Security	Kensington Lock support Eye for padlock Housing Lock Spring (to use with Kensington lock), (optional)

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Security	
System and BIOS Security	Embedded security (TPM 2.0) EraseDisk Credential Guard Ready and Device Guard Capable (requires 8 GB or more system RAM and SSD PCIe NVME) Modern Standby ready (for configurations with NVMe SSD and w/o PCIe cards) 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) AuthConductor Client Basic (secure authentication solution)
Manageability	
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN)
Manageability software	DeskView Client DeskView Instant BIOS Management
DeskView components	BIOS Management incl. Security Inventory Management Driver Management Alarm Management
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 with one key (KBPX Eco, KB521) Keyboard on with 2 keys (CTRL+CTRL) with PS2 or special USB keyboards Keyboard on with any key (USB) Thermal management Extended lifetime
Accessories information	Further helpful options Desktop Accessories: http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/ http://www.fujitsu.com/global/products/computing/peripheral/accessories/connectivity/ Stands and Mounting kits: http://www.fujitsu.com/global/products/computing/peripheral/accessories/desktop/ums/index.html Available Adapters: http://globalsp.ts.fujitsu.com/dmsp/Publications/public/pos-connectivity.pdf
Serviceability	
	EasyChange for HDD EasyChange for optical drives
Packaging information	
Packaging dimension (mm)	395 x 197 x 288 mm
Packaging dimension (inch)	15.55 x 7.76 x 11.34 inch
Max. quantity / pallet	72
Material - Weight (g) Carton	800 g
Material - Weight (lbs) Carton	1.76 lbs
Material - Weight (g) PE	15 g
Material - Weight (lbs) PE	0.03 lbs

Packaging information	
Packaging notes	If keyboard is included in packaging: 1.)packaging dimension is increasing to: 497 x 206 x 293mm / (19.6 x 8.11 x 11.5 inch); 2.) material weight of carton will increase to 1000g; 3.) max. quantity/pallet = 42; printed user documentation is bleached in chlorin free process; Bulk packaging for projects (optional)

Warranty	
Warranty period	1 year
Warranty type	Bring-In / Onsite Service (depending on country)
Warranty Terms & Conditions	http://www.fujitsu.com/warranty
Digital bug fixes	Subject to availability and following their generic release for the product, bug fixes and function-preserving patches for product-related software (firmware) can be downloaded from the technical support at: https://support.ts.fujitsu.com/ free of charge by entering the respective product serial number. For application software supplied together with the product, please directly refer to the support websites of the respective software manufacturer.
Product Support Services - the perfect extension	
Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/

Recommended Accessories

Blue LED Mouse M960		The Blue LED Mouse M960 comes in a slim design with proven Fujitsu engineering quality. The track on glass Blue LED sensor enables ultra precise switchable resolution at 1,000, 1,600 and 2,000 dpi. Blue LED Mouse M960 makes your life easier because it's tailor-made for right handed users. It just feels great in your hand.	Order Code: S26381-K470-L100
Keyboard KB955		The KB955 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB955 the ideal input device for any PC or Notebook user. If you accidently spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.	S26381-K955-L4** (**: Country specific variation)

More information

Fujitsu products, solutions & services

In addition to FUJITSU Desktop ESPRIMO Q7010, 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 FUJITSU Desktop ESPRIMO Q7010, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/emeia/ESPRIMO

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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