Fujitsu recommends Windows 10 Pro

Datasheet
FUJITSU Desktop ESPRIMO D9010

New space saving Small form factor PC with high efficiency and premier manageability

The FUJITSU ESPRIMO D9010 Desktop is a high performance, secure PC with superior manageability, expandability, and best-in-class connectivity. The 80Plus GOLD and 80Plus PLATINUM power supply helps to reduce environmental impact. The USB Type C and flexible graphics options offer great connectivity. Faster operations, a smaller footprint in vertical position enhances space saving to create the perfect working desk.

Latest Intel® Chipset technology and higher memory speed
High performance ensures faster operations and lower system response time
- Superior Intel® Q470 chipset with higher memory frequency of 2,933 MT/s
- The stable Intel® vPro™ technology platform (depending on processor)

New housing and ultimate expandability
Easily customizable and highly expandable business desktop PC
- 2x low profile (LP) or 1x LP/ 1x Full height (Riser) via BTO
- Space saving in width and depth with new 8.3 litres volume

Low Power Consumption; Easy serviceability and usability
Less power consumption and costs but with same performance
- 80Plus GOLD and 80Plus PLATINUM power supply efficiency with monitor outlet
- Tool-less access to components, easy change and screw-less add-on cards

High security with integrated options
Designed to protect data and hardware components against manipulation and theft
- Cable cover in addition to existing Smartcard reader, EraseDisk software
- Integrated Cabinet lock with Master key option
- Hole for pad lock and Kensington as standard for security

Best-in-Class connectivity
Be flexible and stay productive in a hyper-connected world
- Support of new USB Type C in front
- Flexible graphics options (VGA, DVI-D, HDMI, Type C)
- USB Type C support of 60W (optional to power a display)
- Legacy PS2, serial port, parallel port connectors as option

Components

Operating System pre-installed	Windows 10 Pro. Fujitsu recommends Windows 10 Pro for business.
Operating system notes	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://supports ts.fujitsu.com.
Processor	Intel® Core™ i9-10900 processor (10 Cores / 20 Threads, 2.80 GHz, 20 MB, Intel® UHD Graphics 630) ** Intel® Core™ i7-10700 processor (8 Cores / 16 Threads, 2.90 GHz, 16 MB, Intel® UHD Graphics 630) ** Intel® Core™ i5-10600 processor (6 Cores / 12 Threads, 3.30 GHz, 12 MB, Intel® UHD Graphics 630) * Intel® Core™ i5-10500 processor (6 Cores / 12 Threads, 3.10 GHz, 12 MB, Intel® UHD Graphics 630) * Intel® Core™ i5-10400 processor (6 Cores / 12 Threads, 2.90 GHz, 12 MB, Intel® UHD Graphics 630) * Intel® Core™ i3-10100 processor (4 Cores / 8 Threads, 3.60 GHz, 6 MB, Intel® UHD Graphics 630) * Intel® vPro® Platform Logo with Intel® Core™ i5-10500, Intel Core i5-10600, Intel® Core™ i7 and Intel® Core™ i9 processors *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)
Ethernet (RJ-45)	
Memory modules	4GB (1 module(s) 4GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM 8GB (1 module(s) 8GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM 16GB (1 module(s) 16GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM 32GB (1 module(s) 32GB) DDR4, unbuffered, non-ECC, 2,933 MT/s, UDIMM
Mass storage 2.5 inch size	SSD SATA III, 512 GB, 2.5-inch SSD SATA III, 256GB, 2.5-inch SSD SATA III, 128 GB, 2.5-inch HDD SATA III, 500 GB, 5.4k rpm
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 3.5 inch size	HDD SATA III, 7,200 rpm, 2000 GB, 3.5-inch HDD SATA III, 7,200 rpm, 1000 GB, 3.5-inch
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. SSD (Solid State Disk) SED (Self-Encrypting Drive)
Drives (optional)	BD Triple Writer SATA ultra slim (tray) DVD Super Multi ultra slim (tray) SD Card reader
Interface add on cards/components (optional)	Gigabit Ethernet PCIe x 1 WLAN 802.11ax (2x2) PCIe x1 LP and Bluetooth 5.0, SRD 5.8GHz (dedicated regions only) Dual serial card PCIe x1 LP

Base unit

Base unit	ESPRIMO D9010
Mainboard	
Mainboard type	D3822
Formfactor	Proprietary
Chipset	Intel® Q470
Processor socket	LGA 1200
Processor quantity maximum	1
Supported capacity RAM (max.)	128 GB
Memory slots	4 DIMM (DDR4)
Memory frequency	2,933 MT/s
Memory notes	Dual channel support
	For dual channel performance, 2 memory modules must be ordered. Capacity per channel must be the same.
	2933 MHz may be clocked down to 2400MHz depending on processor and memory configuration
LAN	10/100/1,000 Mbit/s Intel® l219LM
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, 5.1 surround sound
I/O controller on board	
Serial ATA total	4
Thereof SATA III	4
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: headset	1
USB 2.0 total	4
USB 3.2 Gen1 (5 Gbps) total	3
USB 3.2 Gen2 (10 Gbps) total	5 and 1 optional
USB front	2x USB 2.0; 2x USB 3.2 Gen 2; 1x USB 3.2 Gen 2 Type-C (supports up to 15W)
USB rear	2x USB 2.0; 2x USB 3.2 Gen 1; 2x USB 3.2 Gen 2; optional: additional 1x USB 3.2 Gen 2 Type-C (supports DisplayPort 1.4 and power delivery (PD) up to 15W or 60W (occupies PCIe x16 slot)
USB internal	1x USB 2.0 or 1x USB 3.2 (Gen 1) Type A
VGA	Optional
DisplayPort	2
DVI	Optional (DVI-D)
Serial (RS-232)	1 (optional serial port (9pin, 16 byte FIFO, 16550 compatible))
Mouse / Keyboard (PS/2)	2 (optional)
Ethernet (RJ-45)	1
Parallel	1 (optional) (25pin with EPP and ECP)
Interface Module notes	Anytime USB charge functionality
Input device / components	
Input devices (optional)	Keyboard
	Mouse
Drive bays	
Drive bays total	3
2.5-inch internal bays	1
5.25-inch external bays	1
Drive bay notes	1x internal 3.5" or 1x internal 2.5"
M.2-2280	2x on mainboard for SSD NVMe (PCIe 3.0 x4; up to 32Gbit/s)

Slots

PCI-Express 3.0 x4 (mech. x16)	1 x (150mm / 5.91 inch)
PCI-Express 3.0 x16	1 x (210 mm / 8.27 inch) Low profile or full height (via Riser card), optional
M.2-2230	On mainboard for WLAN/Bluetooth module

Graphics on board

Graphics brand name	Intel® UHD Graphics 610, Intel® UHD 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 For multi monitoring mode, graphics card and integrated graphics run in parallel 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) USB Type-C™ (supports DisplayPort™ 1.4 and power delivery (PD) up to 60W. Occupies PCIe x16 slot)
Graphics notes	Up to 1GB 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 (colour depth up to 32 Bit/pixel) For TFT we recommend using 60Hz

Electrical values

Power efficiency note	Power supply efficiency in % at 10% /20% /50% /100% load 80Plus GOLD: For 230V; 87/90/92/91 For 115V; 86/89/91/88 80Plus PLATINUM: For 230V; 88/92/94/93 For 115V; 87/91/92/91
Rated voltage range	100V – 240V
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	GOLD: 280W; PLATINUM: 300W
Power factor correction/active power	Active
Monitor outlet	Switched for PLATINUM power supply

Power consumption

Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	https://docs.ts.fujitsu.com/dl.aspx?id=f4739e6a-7596-4ab6-b38e-6b1b5d58e28b

Heat dissipation

Heat dissipation notes	Sea white paper Energy Consumption

Noise emission

Related Processors for noise	Intel® Core™ i9-10900 processor and 128GB, ODD; Windows 10 (tower position)
Standard noise emission	According to ISO 7779:2010, ECMA-74
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	For PLATINUM PSU: 3.2 B / 19 dB(A) Bystander; 20 dB(A) Operator position (SSD M.2) 3.4 B / 21 dB(A) Bystander; 23 dB(A) Operator position (SSD M.2 and 3.5" HDD)
Standard noise operation mode: HDD mode	For PLATINUM PSU: 3.2 B / 19 dB(A) Bystander; 20 dB(A) Operator position (SSD M.2) 3.5 B / 22 dB(A) Bystander; 24 dB(A) Operator position (SSD M.2 and 3.5" HDD)
Standard noise operation mode: Idle mode	For PLATINUM PSU: 3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position (SSD M.2) 3.4 B / 20 dB(A) Bystander; 23 dB(A) Operator position (SSD M.2 and 3.5" HDD)
Standard noise operation mode: ODD load	For PLATINUM PSU: 4.4 B / 31 dB(A) Bystander; 36 dB(A) Operator position (SSD M.2) 4.5 B / 31 dB(A) Bystander; 38 dB(A) Operator position (SSD M.2 and 3.5" HDD)
Standard noise operation mode: Office Applications 2.0	For PLATINUM PSU: 3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position (SSD M.2) 3.4 B / 22 dB(A) Bystander; 23 dB(A) Operator position (SSD M.2 and 3.5" HDD)

Miscellaneous

	Keyboard on with 2 keys (CTRL+CTRL) with PS2 or special USB keyboards Keyboard on with any key (USB) Thermal management Internal dust filter (optional)

Dimensions / Weight / Environmental

Dimensions (W x D x H)	314 x 296 x 89 mm 12.36 x 11.65 x 3.51 inch
Operating position	Horizontal / vertical (optional, feet needed)
Weight	Approx. 8 kg
Weight (lbs)	Approx. 17.64 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

Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 8.0, depending on configuration TCO Certified 8.0 (depending on configuration) EPEAT® Silver (dedicated regions), depending on configuration ENERGY STAR® compliance is an order option. Non-ENERGY STAR/ TCO/ EPEAT compliant products are marked at brand name with additional suffix "n".
China	CCC CEL 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 preinstalled) 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.)

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 14.0 (depending on processor)
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	https://www.fujitsu.com/fts/manageability

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)
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
System and BIOS Security	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)
	AuthConductor Client Basic (secure authentication solution)

Packaging information

Packaging dimension (mm)	499 x 296 x 439 mm
Packaging dimension (inch)	19.65 x 11.65 x 17.28 inch
Max. quantity/ pallet	24
Material – Weight (g) Carton	1117 g
Material – Weight (lbs) Carton	2.46 lbs
Material – Weight (g) EPS / PS	225 g
Material – Weight (lbs) EPS / PS	0.5 lbs
Material – Weight (lbs) PE	25g
Material – Weight (lbs) PE	0.06 lbs
Packaging notes	Printed user documentation is bleached in chlorine free process;
	Bulk packaging for projects (optional)

Warranty

Warranty period	3 year
Warranty type	Bring-In / Onsite Service (depending on country)
Recommended Service	9x5, Onsite Response Time: Next Business Day
Spare Parts availability	5 years

Fujitsu recommends Windows 10 Pro

More information

Fujitsu OPTIMIZATION solutions

In addition to Fujitsu Desktop ESPRIMO D9010, 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/

More information

To learn more about Fujitsu Desktop ESPRIMO D9010, 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/

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

Specification disclaimers

[1] 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. [2] GB = 1 billion bytes. TB = 1 trillion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software. Up to 20 GB of HDD space is reserved for system recovery. [3] Shared memory depending on main memory size and operating system. [4] WWAN module is optional and available in specific countries only. It requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. Please contact our Fujitsu sales specialist for more information. [5] Interfaces depend on the configuration selected by customers. [6] Battery runtime information is based on worldwide acknowledged BAPCo® MobileMark® 2018 (office productivity). Refer to www.bapco.com for additional details. The BAPCo® MobileMark® Benchmark provides results that enable direct product comparisons between manufacturers. It does not guarantee any specific battery runtime which actually can be lower and may vary depending on product model, configuration, application and power management settings. The battery capacity decreases slightly with every re-charge and over its lifetime. 2-cell battery will only be available in specific countries/ regions. For more detail, please contact Fujitsu sales specialist. [7] The stated thickness does not include rubber feet.

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