Fujitsu recommends Windows<sup>®</sup> 7.

# Data Sheet Fujitsu ESPRIMO P710 E90+ Desktop PC

### The Expandable Business Workhorse

Fujitsu ESPRIMO P710 PCs bring you highly expandable technology for your challenging business applications. The use of identical components within the product family ensures perfect infrastructure compatibility and simplifies rollout. A 92%-efficient power supply will ensure environmental compliance for years to come. Intel® Standard Manageability Technology keeps administration costs to a minimum. Plus, EraseDisk ensures secure system retirement

### Microtower

Maximum performance and optimal extendability

High-quality, high-value microtower, 7 drive bays, 4 PCI/PCI express interfaces

### Energy efficiency

Reduce power consumption and costs - without any loss of performance

Sophisticated technology, switched monitor outlet, low energy-consuming processors and enhanced power management settings

### Green technology

Fujitsu's contribution to environmental protection for the continued existence of our planet

 Halogen-free printed circuit of mainboard and power supply, sophisticated product concept for the entire lifecycle

### Quiet

Pleasant working environment due to an extremely quiet system

Innovative hardware design, optimized cooling concept ensures silent operations

### Serviceability

- Easy to extend and optimal user-friendliness without any additional tools
- Easy access to all replaceable and expandable components





## Components

Processor	Intel® Core™ i7-3770 processor (4 Cores / 8 Threads, up to 3.9 GHz 3.40 GHz, 8 MB, Intel® HD Graphics 4000 with 3
	generation Core i processors) *
	Intel® Core™ i5-3570 processor (4 Cores / 4 Threads, up to 3.8 GHz 3.40 GHz, 6 MB, Intel® HD Graphics 2500) *
	Intel® Core™ i5-3470 processor (4 Cores / 4 Threads, up to 3.6 GHz 3.20 GHz, 6 MB, Intel® HD Graphics 2500) *
	Intel® Core™ i3-2120 processor (2 Cores / 4 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 2000)
	Intel® Pentium® processor G860 (2 Cores / 2 Threads, 3.00 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G640 (2 Cores / 2 Threads, 2.80 GHz, 3 MB, Intel® HD Graphics)
	Intel® Celeron® processor G540 (2 Cores / 2 Threads, 2.50 GHz, 2 MB, Intel® HD Graphics)
	*with Intel® Turbo Boost Technology (clock speed and will vary depending on workload and other variables)
)perating systems	
Operating system	Windows® 7 Home Basic (EM) 32-bit
	Windows® 7 Home Premium 64-bit
	Windows® 7 Professional 32-bit
	Windows® 7 Professional 64-bit
Operating system compatible	openSUSE Linux
Operating system pater	Windows® XP
Operating system notes	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via http://support.ts.fujitsu.com
Memory modules	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
include s	4 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
Hard disk drives (internal)	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch
	HDD SATA III, 7200 rpm, 2000 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 500 GB, 3.5-inch, business critical
	HDD SATA III, 7200 rpm, 500 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 250 GB, 3.5-inch
	HDD SATA II, 7200 rpm, 320 GB, 2.5-inch
	HDD SATA II, 7200 rpm, 160 GB, 2.5-inch
Hard disk notes	Up to 18 GB of HDD space is reserved for system recovery
Graphics add on cards (optional)	NVIDIA® Quadro® NVS 300, 512 MB
	NVIDIA® GeForce® 605 DisplayPort 1GB FH, 1 GB
	LFH59/ 2x DVI-I adapter cable
	LFH59/ 2x DP adapter cable
	DP to DVI-D (single link) Adapter Cable
	ATI Radeon® HD7350 1GB FH, 1 GB
	2nd NVIDIA® Quadro® NVS 300, 512 MB
Drives (optional)	BD Triple Writer SATA slim (tray)
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 20in1, USB 2.0, 3.5-Inch

Interface and on cardis/components' (optional)         WGAN HIL 802 11 g/Draft n (Windows only)           ParaFile Interface         ParaFile Interface           Glight I Homen RC (x, 1, 15		
WLANIL B02.11g/Dot.n. (Windows only)         Parellel interface         Gapbit Ethernet PCD x1, D5         Base unit       ESPRIMD P710 ESD •         Mainboard         Mainboard type         Datal serial card PCD x1, powered         Datal serial card PCD x1         Base unit       ESPRIMD P710 ESD •         Mainboard type       D3161         Formfactor       pATX         Chipse       Intel® 075         Processor goaltity maximum       1         Memory stock       LQA 1155         Processor guantity maximum       1         Memory stock       ADM (D0R3)         Supported capacity RAM (max.)       32 GB         Memory stock       Dad channel support.         For data channel performance, an intimum of 2 memory modules have to be ordered. Capacity per channel has to 1         Memory stock       Dad channel Support.         Bio servision       AVI APID 4.6         BIOS flash EPROM update by software       Recover 905         Mainford Stock bio Firmane Interface (UEFI)       Audio fastures         Mainford Stock bio Firmane Interface (UEFI)       Audio fastures         Mainford Stock bio Firmane Interface (UEFI)       Audio fastures         Mainford Stock bio Firmane Interface (UEFI)		
Parallel Interface         Gipbit Fihmer PICe x1, DS           Gipbit Fihmer PICe x1, DS         Gipbit Fihmer PICe x1, DS           Base unit         ESPRIND P710 ESD+           Mainbaad         ESPRIND P710 ESD+           Mainbaad type         03151           Formator         µAX           Object         Intel® 075           Processo socket         LGA 1155           Processo socket         LGA 1155           Processo for durity maximum         1           Memory foregree         1000 M12           Memory foregree         1000 M12           Memory foregree         Todo M142           BIOS Features         BIOS Flabsh FIPROM update by software           Recovery BIOS         BIOS Flabsh FIPROM update by software           Recovery BIOS         Concerne CO2GR62           Audio forect         Concerne CO2GR62           Audio forectiment         1           Audio forectiment         1           Audio finenin         1	(optional)	WIAN III 802 11a/Draft-n (Windows only)
Gigabit Privence POE x1, DS           eSAN Interface           Dual setial card PCe x1, powered           Dual setial card PCe x1, powered           Base unit         ESPRIMO PF10 E90+           Mainboard Wee         Dial Setial card PCe x1           Mainboard Spee         Dial Setial Card PCe x1           Poressor socket         LGA 1155           Poressor socket         LGA 1150           Supported capacity RAM (max.)         32 CB           Memory frequency         Hold Marce 14575           Poressor socket         Dial charnel Soport. For dual charnel Soport. For dual charnel Soport.           Read Capacity RAM (max.)         32 CB           Audio charnel performance, a minimum of 2 memory modules have to be ordered. Capacity per ch		
eSAI Interface           Dual serial cad PCIe x1, powerd           Dual serial cad PCIe x1           Base unit         ESPRIMO P710 E30+           Mainboard         Unitserial cad PCIe x1           Mainboard type         Di3161           Formfactor         µXX           Chipset         Intel® 075           Processor socket         ICA 1155           Processor socket         ICA 1155           Processor socket         Dual serial can PCIe X3           Supported Capacity RAM (max)         32 G8           Memory frequency         IG00 MHz           Memory frequency         IG00 MHz           Memory frequency         ID1001/1000 MBz Intel® 82579 V           BIOS Features         BIOS Flash EPROM update by software Ber more pIBOS           BIOS Flash EPROM update by software Ber more pIBOS         Intel® 42579 V           BIOS Flash EPROM update by software Ber more pIBOS         Intel® 15400 MBZ           Audio codec         Concoant COSIGA2           Audio codec         Concoant COSIGA2           Audio fastures         Internal speaker supports audio playback, High Definition audio, 5.1 surround sound           UC controller on board         Senial AIA 113 GbH; Senial AIA 114 G GbH; MCG           Audio Intenin         1 <t< th=""><th></th><th></th></t<>		
Dual serial card PDe x1, powered           Dual serial card PDe x1           Base unit         ESPRND P710 E30+           Mainboard Wpe         03161           Formfactor         µXX           Chipset         Intel® 075           Processor socket         LGA 1155           Processor socket         LGA 1155           Processor socket         LGA 1155           Supported capacity RAM (max.)         32 G8           Memory Inferguency         1600 MHz           Memory Inferguency         Doal damale support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to the same.           BIOS restricts         BIOS Flash TPROM update by software Recovery BIOS           BIOS features         BIOS Flash TPROM update by software Recovery BIOS           Voot ontroller on board         Junited Extensible Firmware Interface (UEFI)           Audio cateus         Sameta CADGeA2           Audio refares         Sameta CADGeA2		-
Dual serial card PCD x1           Base unit         ESPRIMO P210 E90 +           Mainboard         Image: Command		
Base unit         ESPRIMO P710 E90+           Mainbaard type         D3161           Formfactor         µXX           Chipet         Intel® 0/5           Processor socket         LGA1155           Supported capacity RMM (max)         22 CB           Memory index         Dual channel profinmance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to the same interface (UEFI)           LAN         10/100/1000 MBUS intel® 2579 V           BIOS relations         MH Aptio 4.6           BIOS relations         MH Aptio 4.6           BIOS relations         Interface Same supports audio playback, High Definition audio, 5.1 surround sound           Vin controller on board         Serela/ATAIII (I GAH)           Serela/ATA		
Mainboard       Mainboard type     D3161       Formfactor     µATX       Chipet     Intel® 075       Processor socket     LGA 1155       Memory frequentity maximum     1       Memory frequentity maximum     1       Memory frequentity maximum     1       Memory frequentity maximum     1600 MHz       Memory frequentity maximum     1000 MBz 5 memory modules have to be ordered. Capacity per channel has to 1 the same.       BOS features     Dial channel support.       For dual channel support.     For dual channel performance. a minimum of 2 memory modules have to be ordered. Capacity per channel has to 1 the same.       BIOS features     BIOS Flash EPRON Unpdate by software       Recovery BIOS     Unified Starenbite Filmware Interface (UEFI)       Audio features     Internal speaker supports audio playback, High Definition audio, 5.1 surround sound       IVO controller on board     5       Serial ATA II (16 Gbit)     NCG       NCA     2 (optional)       Audio: Interion     1       Audio: Interion     1		
Nainboard typeD3161formfactorµX(hipetIncel® 075Processor socketLGA 1155Processor quantity maximum1Nemory slots4 0IMM (DDR3)Supported capacity RAM (max.)32 68Memory frequency1600 MHzMemory notesDual channel support. For dual channel support. Tor dual channel performance. a minimum of 2 memory modules have to be ordered. Capacity per channel has to the same.LAN10100/1000 MBirds Intel® 82579 VBIOS FeaturesBIOS Flach FPRON update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)Adio codecConexant CA20642Adio featuresInternal speaker supports audio playback, High Definition audio, 5.1 suriound soundUV conteller on boardSerial ATA tol (S Gbit) KCO AlfCISerial ATA UI (S Gbit) KCO AlfCISerial ATA II (S Gbit) KCO AlfCIInterfacesInterface (UEFI)Audio: Inie-in / microphone1Audio: Inie-in / microphone1Serial ATA III (S Gbit) KCO AlfCIInstenseSerial ATA III (S Gbit) KCO AlfCIIUS 3.0 total4USB sontal4USB sontal4USB sontal4USB sontal4USB sontal4USB sontal4USB sontal4USB sontal4USB sontal4USB sontal1USB sontal1USB sontal1USB sontal1USB sont	Base unit	ESPRIMO P710 E90+
Formactor         µAIX           Chipset         Incel® 075           Processor socket         LGA 1155           Processor socket         LGA 1100           Memory frequency         1600 MHz           Memory notes         Dual channel support.           For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to the same.           LAN         10100/1000 MBit/s Intel® 82579 V           BIOS resion         AMI Apito 4.6           BIOS features         BIOS Flash EPROM update by software Recovery BIOS           Recovery BIOS         Unified Extensible Fimmware Interface (UEFI)           Audio features         Interfaces (UEFI)           Audio features         Secial ATA II (1 Gibti)	Mainboard	
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Processor socket         LGA 1155           Processor quantity maximum         1           Memory slos         4 DMM (DDR3)           Supported capacity RAM (max.)         32 GB           Memory frequency         1600 MHz           Memory notes         Dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to Inter some.           IAN         10/10/000 MBI/s Intel® 82579 V           BIOS reation         AMI Aptio 4.6           BIOS features         BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)           Audio codec         Conexant CX20642           Audio features         Internal speaker supports audio playback, High Definition audio, 5.1 surround sound           IVC controller on board         Serial ATA total           Serial ATA total         Serial ATA II (3 Gbit) Serial ATA II (3 Gbit) Serial ATA II (1 G Gbit) NCG           Audio: line- in         1	Formfactor	ΧΤΑμ
Processor quantity maximum         1           Memory slots         4 DIMM (DDB3)           Supported capacity RAM (max.)         32 GB           Memory frequery         1600 MHz           Memory notes         Dual channel support.           For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to 1 the same.           LAN         10/100/1000 MBits Intel® 82579 V           BIOS features         BIOS fash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)           Audio codec         Consent CX20642           Audio features         Internal speaker supports audio playback, High Definition audio, 5.1 surround sound           VO contoller on board         5           Serial ATA total         5           Serial ATA Utal         1           Thereof SATA         2 (optional)           Controller functions         Serial ATA III (6 Gbit) NCC           Audio: line-in         1           Serial ATA III (6 Gbit) NCC           Audio: line	Chipset	Intel® Q75
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Memory notes         1600 MHz           Memory notes         Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to the same.           LAN         10/100/1000 MBI/s Intel® 82579 V           BIOS restrison         AMI Aptid 4.6           BIOS features         BIOS Flash. EPROM update by software Recovery BIOS           Audio codec         Conexant CO20642           Audio features         Internal speaker supports audio playback, High Definition audio, 5.1 surround sound           VIC controller on board         5           Serial ATA total         5           Serial ATA total         2 (optional)           Controller functions         Serial ATA II (3 Cbit) Serial ATA II (6 Cbit) NCA           Audio: line-in / microphone         1           Audio: line-in / microphone         1           Audio: line-in / microphone         1           Stata Line in         1           Stata Line in         1           Stata Line in         1           Stata Line in / microphone         1	Memory slots	4 DIMM (DDR3)
Memory notes         1600 MHz           Memory notes         Dual channel support.           For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to the same.           LAN         10/100/1000 MBits Intel® 82579 V           BIOS restrison         AMI Aptio 4.6           BIOS features         BIOS Flash EPROM update by software Recovery BIOS           Audio codec         Conexton CO206/2           Audio features         Internal speaker supports audio playback, High Definition audio, 5.1 surround sound           VIC controller on board         S           Serial ATA total         5           Serial ATA total         2 (optional)           Kereore SATA         2 (optional)           Kereore Sata         1           Audio: line-in / microphone         1           Audio: line-in / microphone         1           Kereore Sata         1           Site autor         1           Kereore Sata         1           Site autor         1           Metric Information: microphone         1           Site autor         1           Kereores         1           Site autor         1           Site autor         1           Bubbi in the de Sata		
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LAN10/100/1000 MBit/s Intel <sup>19</sup> 82579 VBIOS versionAMI Aptio 4.6BIOS featuresBIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)Audio codecConexant CX20642Audio featuresInternal speaker supports audio playback, High Definition audio, 5.1 surround soundVO controller on boardSSerial ATA total5Controller functionsSerial ATA totalSerial ATA total1Interneof SATA III1InterfacesSerial ATA III (3 Gbit) NCQ Actionation in audio, S.1 surround soundInterfacesNCQ Actionation in audio, Serial ATA III (3 Gbit) NCQ Actionation in audio, Serial ATA III (5 Gbit) NCQ Actionation in audio, Serial ATA III (5 Gbit) NCQ Actionation in audio: Inte-in1Audio: line-in1Audio: line-in1Audio: line-in1Audio: line-in1Serial ATA III (5 Gbit) NCQ Audio: line-in1Serial ATA III (5 Gbit) <br< th=""><th></th><th>For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be</th></br<>		For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be
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Unified Extensible Firmware Interface (UEFI)           Audio codec         Conexant CX20642           Audio features         Internal speaker supports audio playback, High Definition audio, 5.1 surround sound           VIO controller on board         Serial ATA total         5           Serial ATA total         2         Optional           Controller functions         Serial ATA II (3 Gbit) Serial ATA III (6 Gbit) NCQ AHCI         Serial ATA III (6 Gbit) NCQ AHCI           Interfaces         Serial ATA III (6 Gbit) NCQ         Serial ATA III (6 Gbit) NCQ         Serial ATA III (7 Gbit) Serial ATA III (7 Gbit)           Serial ATA III         1         Serial ATA III (7 Gbit)         Serial ATA III (7 Gbit)           Serial ATA III         1         Serial ATA III (7 Gbit)         Serial ATA III (7 Gbit)           Serial ATA III (8 Gbit) NCQ         Serial ATA III (7 Gbit)         Serial ATA III (7 Gbit)         Serial ATA III (7 Gbit)           Interfaces         Interfaces         Interfaces         Interface         Interface         Interface           Audio: line-in / microphone         1         Interface         Interface         Interface         Interface           Sub 2.0 total         1         Interface         Interface         Interface         Interface           Sub 3.0 total         4         Interface	BIOS features	
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NCQ AHCIInterfacesAudio: line-in1Audio: line-in / microphone1Audio: line-out1Front audio: microphone1Front audio: headphone1USB 2.0 total0USB 3.0 total4USB front4x 2.0 or 2x 2.0/ 2x 3.0USB rear6x 2.0 / 2x 3.0USB internal2VGA1 (via DVI to VGA adapter, part of shipment)DisplayPort1DVI1 (DVI-I)Serial (RS-232)1 (9pin, 16 byte FIFO, 16550 compatible)	Controller functions	
AHCI         Interfaces         Audio: line-in       1         Audio: line-in / microphone       1         Audio: line-out       1         Front audio: microphone       1         Front audio: microphone       1         Front audio: headphone       1         USB 2.0 total       10         USB 3.0 total       4         VSB front       4x 2.0 or 2x 2.0/ 2x 3.0         USB rear       6x 2.0 / 2x 3.0         USB internal       2         VGA       1 (via DVI to VGA adapter, part of shipment)         DisplayPort       1         DVI       1 (DVI-I)         Serial (RS-232)       1 (9pin, 16 byte FIFO, 16550 compatible)		
Interfaces           Audio: line-in         1           Audio: line-in / microphone         1           Audio: line-out         1           Front audio: microphone         1           Front audio: headphone         1           USB 2.0 total         10           USB 3.0 total         4           USB front         4x 2.0 or 2x 2.0/ 2x 3.0           USB rear         6x 2.0 / 2x 3.0           USB internal         2           VGA         1 (via DVI to VGA adapter, part of shipment)           DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
Audio: line-in       1         Audio: line-in / microphone       1         Audio: line-out       1         Front audio: microphone       1         Front audio: headphone       1         USB 2.0 total       10         USB 3.0 total       4         USB front       4x 2.0 or 2x 2.0/ 2x 3.0         USB rear       6x 2.0 / 2x 3.0         USB internal       2         VGA       1 (via DVI to VGA adapter, part of shipment)         DisplayPort       1         DVI       1 (DVI-I)         Serial (RS-232)       1 (9pin, 16 byte FIFO, 16550 compatible)		
Audio: line-in / microphone       1         Audio: line-out       1         Front audio: microphone       1         Front audio: headphone       1         USB 2.0 total       10         USB 3.0 total       4         USB front       4x 2.0 or 2x 2.0/ 2x 3.0         USB rear       6x 2.0 / 2x 3.0         USB internal       2         VGA       1 (via DVI to VGA adapter, part of shipment)         DisplayPort       1         DVI       1 (DVI-I)         Serial (RS-232)       1 (9pin, 16 byte FIFO, 16550 compatible)		1
Audio: line-out       1         Front audio: microphone       1         Front audio: headphone       1         USB 2.0 total       10         USB 3.0 total       4         USB front       4x 2.0 or 2x 2.0/ 2x 3.0         USB rear       6x 2.0 / 2x 3.0         USB internal       2         VGA       1 (via DVI to VGA adapter, part of shipment)         DisplayPort       1         DVI       1 (DVI-I)         Serial (RS-232)       1 (9pin, 16 byte FIFO, 16550 compatible)		
Front audio: microphone         1           Front audio: headphone         1           USB 2.0 total         10           USB 3.0 total         4           USB front         4x 2.0 or 2x 2.0/ 2x 3.0           USB rear         6x 2.0 / 2x 3.0           USB internal         2           VGA         1 (via DVI to VGA adapter, part of shipment)           DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)	-	
Front audio: headphone         1           USB 2.0 total         10           USB 3.0 total         4           USB front         4x 2.0 or 2x 2.0/ 2x 3.0           USB rear         6x 2.0 / 2x 3.0           USB internal         2           VGA         1 (via DVI to VGA adapter, part of shipment)           DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
USB 2.0 total         10           USB 3.0 total         4           USB front         4x 2.0 or 2x 2.0/ 2x 3.0           USB rear         6x 2.0 / 2x 3.0           USB internal         2           VGA         1 (via DVI to VGA adapter, part of shipment)           DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
USB 3.0 total         4           USB front         4x 2.0 or 2x 2.0/ 2x 3.0           USB rear         6x 2.0 / 2x 3.0           USB internal         2           VGA         1 (via DVI to VGA adapter, part of shipment)           DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)	•	
USB front         4x 2.0 or 2x 2.0/ 2x 3.0           USB rear         6x 2.0 / 2x 3.0           USB internal         2           VGA         1 (via DVI to VGA adapter, part of shipment)           DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
USB rear         6x 2.0 / 2x 3.0           USB internal         2           VGA         1 (via DVI to VGA adapter, part of shipment)           DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
USB internal         2           VGA         1 (via DVI to VGA adapter, part of shipment)           DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
VGA         1 (via DVI to VGA adapter, part of shipment)           DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
DisplayPort         1           DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
DVI         1 (DVI-I)           Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
Serial (RS-232)         1 (9pin, 16 byte FIFO, 16550 compatible)		
	wouse / keyboard (PS/2)	۷

Interfaces	
Ethernet (RJ-45)	1
Parallel	1 (optional) (25pin with EPP and ECP)
eSATA	1 (optional)
Interface Module notes	Anytime USB charge functionality
Input device / components	
input device / components	Optical USB wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse
	KBPC PX ECO
	Mouse M440 ECO
Drive bays	
Drive bays total	7
2.5-inch internal bays	1
3.5-inch internal bays	2
3.5-inch external bays	2
5.25-inch external bays	2
-	
Slots	
PCI-Express 3.0 x16	1 x (312 mm / 12.29 inch) Full height
PCI-Express 2.0 x4 (mech. x16)	1 x (312 mm / 12.29 inch) Full height
PCI-Express x1	1 x (312 mm / 12.29 inch) Full height
PCI (32-bit / 33 MHz)	1 x (170 mm / 6.7 inch) Full height
Graphics on board	
Graphics brand name	Intel® HD Graphics, HD Graphics 2000, HD Graphics 2500, HD Graphics 4000 (depending on CPU)
Shared video memory	up to 1759 MB
TFT resolution (VGA)	1024 x 768 pixel
	1280 x 1024 pixel
	1360 x 768 pixel
	1440 x 900 pixel
	1600 x 900 pixel
	1600 x 1200 pixel
	1680 x 1050 pixel
	1920 x 1080 pixel 1920 x 1200 pixel
TET recolution (D)(I)	
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel
	1600 x 900 pixel
	1680 x 1050 pixel
	1920 x 1080 pixel
	1920 x 1200 pixel
TFT resolution (DisplayPort)	1360 x 768 pixel
	1440 x 900 pixel
	1600 x 900 pixel
	1680 x 1050 pixel
	1920 x 1080 pixel
	1920 x 1200 pixel
	2560 x 1440 pixel
Graphics foaturos	2560 x 1600 pixel Dual display support
Graphics features	DirectX® 10.1 or DirectX® 11 (depending on CPU)
	HDCP support
	Open GL <sup>®</sup> 3.1 (depending on CPU)
	Open CL™ 1.1 (depending on CPU)

Graphics on board	
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible
diaphics notes	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; 20% / 50% / 100% load) : 88% / 92% / 91%
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	280 W
Power factor correction/active power	active
Monitor outlet	Switched
	Switched
Power consumption	
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=0e3c33e1-feaa-459c-a56a-8b1167a85e4d
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Standard noise emission	2x2 GB, HDD, ODD, Windows
	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	tbd
50% load	
Standard noise operation mode: HDD	tbd
load	
Standard noise operation mode: Idle	tbd
mode	
Standard noise operation mode: ODD	tbd
load	
Standard noise operation mode: Office	tbd
applications 2.0	According to ISO 7779:2010, ECMA-74
Blue angel noise emission according certification	for max. possible configuration
Blue angel noise notes / description	A weighted sound power level Lwad (in B); 1B = 10dB
Blue angel noise operation mode: HDD	
load	
Blue angel noise operation mode: Idle	tbd
mode	
Blue angel noise operation mode: ODD	tbd
load	
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	175 x 419 x 395 mm
. ,	6.89 x 16.5 x 15.56 inch
Operating position	Vertical
Weight	11 kg
Weight (lbs)	24.25 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35°C (50 - 95°F)
Compliance	
Product	ESPRIMO P710
Model	MISW

Compliance	
Germany	TÜV GS
Europe	CE
•	Nordic Swan in progress
USA/Canada	FCC Class B
	cCSAus
Global	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronic equipment)
	Microsoft Operating Systems (HCT / HCL entry / WHQL)
	ENERGY STAR® 5.0 (dedicated regions)
	EPEAT® Gold (dedicated regions)
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/
Additional Software	
Additional software (preinstalled)	Nero Essentials S (burning software)
	Fujitsu Recovery (Hard Disk Based Recovery)
	Norton Internet Security (incl. Firewall) 60 days version
	Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®
	Buy Office 2010 to use the full-featured software.
Additional software (optional)	Recovery DVD for Windows®
	Drivers & Utilities DVD (DUDVD)
	CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not
	supported under Windows XP if the system runs on Intel onboard graphics)
	Nero 10 Essentials XL
Miscellaneous	
	Keyboard on (Special Fujitsu keyboard required)
	Thermal management
	Extended lifetime
Compatibility (references)	
• • • •	DMI 2.0
	PC 2001
	WMI 1.5
	USB 2.0
	SMBIOS
Manageability	
Manageability technology	DeskUpdate Driver management
	PXE 2.1 Boot code
	Wake up from S5 (off mode)
	Intrusion switch (optional)
	Intel® Standard Manageability
	WoL (Wake on LAN)
Manageability software	DeskView Client
	DeskView Instant BIOS Management
	DeskView Integration for Symantec Management Platform
DeskView components	Inventory Management
	BIOS Management
	Driver Management
	Security Management
	Alarm Management
Manageability link	http://ts.fujitsu.com/manageability
Security	
System protection	Kensington Lock support
	Eye for padlock
	Optional: Integrated cabinet lock

Security	
Audit proof protection	EraseDisk (optional)
	Boot sector virus protection
	Write protect option for the Flash EPROM
	Embedded security (TPM 1.2)
	Control of all USB interfaces
	External USB ports can be disabled separately
	Control of external interfaces
Access protection	User and supervisor BIOS password
	Hard disk password
	Optional: Access protection via external SmartCard reader
	Optional: Access protection via internal SmartCard reader
Serviceability	
	EasyFix
	EasyChange for HDD
	EasyChange for optical drives
Packaging information	
Packaging dimension (mm)	516 x 278 x 562 mm
Packaging dimension (inch)	20.31 x 10.94 x 22.13 inch
Max. quantity / pallet	28
Material - Weight (g) Carton	1405 g
Material - Weight (lbs) Carton	3.1 lbs
Material - Weight (g) EPS / PS	160 g
Material - Weight (lbs) EPS / PS	0.35 lbs
Material - Weight (g) PE	60 g
Material - Weight (lbs) PE	0.13 lbs
Packaging notes	printed user documentation is bleached in chlorine free process
Warranty	
Standard Warranty	1 year
Service level	Bring-In / On-Site Service (depending on country)
Maintenance and Support Services -	
Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	http://www.fujitsu.com/fts/services/support/index.html

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### Fujitsu platform solutions

In addition to Fujitsu ESPRIMO P710 E90+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

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