

## ESPRIMO™ C Series Economy in Ultra Small Form Factor

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### Economy

Sophisticated technologies for best in class economy.

Reduce cost of your professional PC by lowest energy consumption! Software and BIOS power management solutions reduce the overall average power consumption.

Further Total Cost of Ownership reductions are achieved through a comprehensive set of manageability features, sophisticated security solutions and a service friendly cabinet design.

For highest economy, ESPRIMO professional PCs are designed to increase your productivity and to decrease your cost.

### Reliability

- Complete system development and manufacturing by Fujitsu Siemens Computers guarantees highest quality
- Platform stability and product continuity with managed lifecycle up to 18 month and chipset diversity

### Environment

- Build with specially selected materials, the ESPRIMO Green PC brings economy and ecology in harmony
- From development to production, from transport to recycling –minimize the impact on the environment and limit the use of unrecoverable resources.

### Ergonomics

- Sophisticated hardware design with optimized fans and air flow provides most silent system for an efficient working environment
- Best usability and complete quality – service friendly cabinet and easy access to all components

### Customizing

- Tailor-made products to meet customer individual requirements
- Freedom of choice with systems which perfectly fit to specific customer

### Manageability

- Reduce Total Cost of Ownership with a comprehensive set of system management features
- Easy and remote administration with DeskView client management

### Security

- Access and data protection with sophisticated hardware and software components for secure systems
- Protect property – secure hardware and data and limit access with SmartCard Reader



	C5910
<b>Mainboard</b>	
Chipset	iQ963
Mainboard Number	D2364
Mainboard form factor	proprietary
Processor socket	LGA 775
Front side bus resp. system bus support	533/800/1066MHz
BIOS version	Phoenix Vers. 6.0
Flash EPROM BIOS update by software	x
Recovery BIOS	x
<b>Processor</b>	
Intel® Core™ 2 Duo	up to E6600
Second level cache	2MB/4MB
Front side bus (FSB)	1066MHz
Intel® Core™ 2 Duo	up to E4400
Second level cache	2MB
Front side bus (FSB)	800MHz
Intel® Pentium® D9xx	up to D945
Second level cache	2x2MB
Front side bus (FSB)	800MHz
Intel® Pentium® D8xx	up to D820
Second level cache	2x1MB
Front side bus (FSB)	800 MHz
Intel® P4 6xx	up to 641
Second level cache	2MB
Front side bus (FSB)	800 MHz
Intel® P4 5xx	541
Second level cache	1MB
Front side bus (FSB)	800 MHz
Intel® Celeron D	up to D360
Second level cache	512 KB
Front side bus (FSB)	533 MHz
Athlon™ 64 X2 (socket)	-
Second level cache	-
System Bus support	-
Athlon™ 64 X2 Energy efficient (socket)	-
Second level cache	-
System Bus support	-
AMD Athlon™ 64 (socket)	-
Second level cache	-
System Bus support	-
AMD Sempron™ (socket)	-
Second level cache	-
System Bus support	-
AMD Sempron™ Energy efficient (socket)	-
Second level cache	-
System Bus support	-
<b>Memory</b>	
Memory support	533/667MHz
DIMM slots	4
dual channel support	x
Max. capacity DDR2 SDRAM 667 MHz	4GB
for dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same	8GB address space (with future memory modules). Fully useable.
<b>Interfaces</b>	
Mouse/keyboard (PS2)	-/-
Serial (9pi, 16 byte FIFO, 16550 compatible)	x
Second serial port	x
Parallel (25pin with EPP and ECP)	-
Display (15 pin, VGA)	x
DVI	optional
Micro (mono) rear	-
Line in (stereo) rear	x
Line out (stereo) rear	x
Micro (mono) front	x
Headphone in front	x
LAN RJ45	x
Universal Serial Bus (USB 2.0) in total	10
therefore	USB rear 6
	USB front 3
	USB internal 1
<b>Interfaces add on cards</b>	
Dual port RS232 , serial	optional
LAN on board	
10/100/1000 MBit/s	Broadcom BCM5755
Wake up on LAN (WOL)	x
PXE	x
BootP	tested
<b>LAN add on cards</b>	
Gigabit Ethernet, SysKonnct	optional
<b>Audio on board</b>	
Internal speaker supports audio playback	x
High definition audio	Realtek ALC 260
<b>I/O controller onboard</b>	
Fast IDE/Ultra DMA-100 bus master capability	x (only for slim ODD)
Serial ATA / thereof eSATA	2 / 0
Serial ATA II / 3GBit	x/x

Raid 1/0	-
Drive bays	2
internal 3,5"	1
external 3,5"	-
external 5,25"	1 slim
Floppy disk drive 1.44 MB standard	-
Hard disk drives	
Serial ATA II 80 / 160 / 250 GB supporting NCQ and 3GBit (if chipset support is available)	x/x/x
Optical drives (IDE)	
24/10/24/8-speed ATAPI CD RW / DVD ROM slim	optional
DVD+/-RW writer slim	optional
Optical drives (SATA)	
16/48-speed DVD ROM	-
48/24/48/16-speed CD-RW / DVD ROM	-
DVD SuperMulti writer double layer support	-
Slots	optional
PCI	1 (174 mm) optional via Riser
PCI Express x16	-
PCI Express x1	-
Graphic on board	Intel® GMA 3000
Shared memory depending on driver	up to 256MB
Resolution (color depth up to 32 Bit/pixel)	
1024 x 768 (recommended / max*)	85 / 120 Hz
1280 x 1024 (recommended / max*)	85 / 120 Hz
1600 x 1200 (recommended / max*)	85 / 100 Hz
1440 x 900 widescreen TFT (VGA / DVI)	x / x
1680 x 1050 widescreen TFT (VGA / DVI)	x / x
1920 x 1200 widescreen TFT (VGA / DVI)	x / x
* refresh rates reflect the max. graphics capabilities. Video quality can be deteriorated when using maximum settings. For TFT we recommend to use 60Hz.	
Graphic add on cards	
NVIDIA GeForce FX 7300LE 128MB, LP	-
NVIDIA GeForce FX 7300LE 256MB, LP	-
NVIDIA GeForce FX 7300LE 128MB	-
NVIDIA GeForce FX 7300LE 256MB	-
DVI adapter incl. Dual Monitoring (DVI/VGA)	optional via Riser
Dual-DVI adapter incl. Dual Monitoring (DVI/DVI)	-
Electrical values	
Rated voltage range, AC	100 - 240 V
Rated frequency range	50-60 Hz
Operating voltage range, AC	90 - 264 V
Operating line frequency range	47 - 63 Hz
Max. output of power supply	240 W
PFC (power factor correction)	active
Monitor outlet	-
Power consumption for standard configuration (W) / CPU	P4 541 / E6400
Peak (S0, running app. CD in use)	145W / 96W
Average (S0, running OS, Idle mode)	68W / 63W
Stand by (S3, energy saving modus, WOL enabled)	2,2W
Minimum (ACPI status S5, soft off, <b>WOL enabled</b> )	1,5W
Minimum (ACPI status S5, soft off, <b>wake up power button only</b> )	-
Minimum " <b>low power soft off</b> " (FSC patent pending) (ACPI S5, soft off, wake up power button only)	0,7W
Heat dissipation (kJ/h / BTU/h) / CPU	P4 541 / E6400
Peak (S0, running app. CD in use)	346kJ/h / 328 BTU/h
Average (S0, running OS, Idle mode)	227kJ/h / 215 BTU/h
Stand by (S3, energy saving modus, WOL enabled)	7,9 kJ/h / 7,5 BTU/h
Minimum (ACPI status S5, soft off, <b>WOL enabled</b> )	5,4 kJ/h / 5,1 BTU/h
1W = 3,6kJ/h, 1W = 3,4121BTU/h	
Noise for standard configuration (HDD, ODD, FDD)	E6400
A weighted sound <b>power level L<sub>wad</sub></b> (in B) / Workplace related A-weighted sound <b>pressure level L<sub>pAm</sub></b> (in dB(A)), (bystander position) (ISO9296)	
Operation mode 1: ODD load (Blue angel requirement)	-
Operation mode 2: HDD load (Blue angel requirement)	-
Operation mode 3: CPU 90% load (Blue angel requirement)	-
Operation mode 4: High load	3,8B / 24dB(A)
Operation mode 5: Office applications	3,9B / 23dB(A)
Idle mode (Blue angel requirement)	3,4B / 19dB(A)
Ambient temperature (IEC 721)	15°C - 35°C
Dimensions (H x W x D)	93 x 292 x 325 mm
Operating position (vertical/horizontal)	x / x (feet included)
Weight (depending on config)	approx. 7 kg
Approvals and standards	
CE certification according to EU Directives 89/336/EEC (EMC) and 06/95/EC (Product safety)	x
Ergonomics ISO9241 (GS mark)	x
Product safety IEC60950, EN60950, UL 60950, CSA22.2, UL 60950, CSA22.2, No.60950	x
Electromagn. compatibility EN55022/B, FCC class B, EN55024, EN61000-3-2/3	x
Environmental compatibility	

RoHS (Restriction of hazardous substances)	x
WEEE (Waste electrical and electronic equipment)	x
Energy Star	x
Blue Angel 2007	-
Nordic Swan	-
Med certification according to EN60950 and EN60601-1-	x
<b>Software (compatibility / preinstalled)</b>	
Microsoft Windows 2000	x / -
Microsoft Windows XP Home	x / optional
Microsoft Windows XP Professional	x / optional
Microsoft Windows XP Professional x64 Edition	x / optional
Microsoft Windows Vista	x / optional (Feb 2007)
Microsoft Windows Vista™ capable* (min. 512MB RAM necessary)	x
Microsoft Windows Vista™ Premium Ready (min. 1GB RAM / DVD reader necessary)	x
Linux certified	-
<b>Additional Software</b>	
Recovery DVD (Microsoft Windows XP / Vista)	x / optional
Drivers and Utility DVD (DUDVD) (Microsoft Windows XP / Vista)	x / optional
XONTROL (noise reduction for optical drives)	x
SafeStandby (only Windows XP)	x
Altiris Local Recovery Pro (only for Windows XP)	x
<b>Others</b>	
Thermal Management	x
Keyboard on (Fujitsu Siemens Computers keyboard required)	x
Spare part availability	5 years
<b>Compatibility (references)</b>	
Microsoft Operating Systems (HCT / HCL entry)	x
PC 2001, DMI 2.0, WMI 1.5, USB 2.0	x
<b>Manageability</b>	
ASF 2.0 (Alert Standard Format)	-
iAMT (Intel Active Manageability Technology)	-
DeskView 10.x client management including:	
On/Offline remote client management	x
Detailed system inventory management and reports	x
BIOS Management	x
Remote power management	x
System notifications	x
Advanced alerts (ASF implementation)	x
Security Remote Control	x
DeskView Helpdesk Integration	x
DeskUpdate Driver management	x
DeskView Migrate	optional
DeskView Control	optional
PXE 2.1 Boot code	x
BootP Boot Code including Bootmanage Administrator Software	tested
Wake up from S5 (off mode)	x
Intrusion switch	optional
<b>Security</b>	
Physical Security implemented in the cabinet	
Prepared for Kensington lock, eye for padlock	x
Integrated cabinet lock	optional
<b>System Security</b>	
Boot sector virus protection	x
Write protect option for the Flash EPROM	x
Embedded security (TPM1.2)	x
Norton Internet Security (NIC)	x
Control of all USB interfaces / external USB interfaces detachable separately	- / -
Boot protection for floppy disk/CD drive and write protection for floppy disk drive	x
Control of external interfaces	x
<b>User Security</b>	
User and supervisor BIOS password	x
SystemLock 2 BIOS SmartCard Security	x
Hard disk password	x
Access protection via external SmartCard reader	optional
Access protection via internal SmartCard reader	optional
Fujitsu Siemens Computers MEMORYBIRD BIOS lock	x
<b>Serviceability</b>	
FlexySlot	x
EasyFix	x
EasyChange (for HDD / for optical drives)	x / -
EasyPull	x