data²

SCENIC® P Series
The optimized
price / performance ratio

Data Sheet

You are looking for a reliable computer that promises a good deal of performance – and a good deal on the price? You do not need to look any further. The SCENIC P microtower gives you first class technology, immediate availability and great value for money.

Working with the SCENIC P Series is stress-free: it is ergonomic, silent and reliable. It is easy to administer and secure. In short, this highly reliable PC is particularly tailor-made to your business demands.

Fujitsu Siemens Computers offers the SCENIC P especially for small and medium enterprises.

Tailor-made
- Fully configurable: processor, memory, drives, boards
- Your individual choice of hardware, software and design

Reliability
- Virtual multi-processing with Hyper-Threading technology
- Best-in-class manufacturing winning the Industrial Intelligence Award 2003 and the Ken Sharma Award 2002
- High quality and function stability made in Germany through own development and manufacturing
- Short reaction and transportation time
- Stable system with smooth combination of mainboard and cabinet
- Your choice of supply concept for in-time and tailored delivery: value4you, made4you
- Warranty, service and spare part supply according to your needs

Manageability
- Easy and remote administration with DeskView client management
- ManageIT: software suites with best integration into your IT environment optionally available

Security
- Easy and secure access and data protection for your business intelligence
- SecureIT: software suite with best integration into your IT environment

Ergonomics
- Reduce downtime with service-friendly cabinet and easy component access
- Stress-free working and silent operation due to low sound level
- Enhance productivity with EasyChange: tool less access to hard disk
- Enhanced flexibility with FlexySlots: Low profile and standard PCI-Express, PCI and AGP cards useable in flexible extension slots
- Excellent resolution and video quality with on board graphics
- Convenient front access to USB and audio as option
- Internal speaker to play audio files
- Blue Angel certification due to low energy consumption and recyclability

FUJITSU SIEMENS COMPUTERS

Unique SCENIC features

Tailor-made
- made4you customizing using standard manufacturing and logistics processes

Reliability
- Power supply designed according to strong Fujitsu Siemens Computers quality standards

Manageabilty
- Client management with DeskView:
  - o DeskView 10.x as option
  - o DeskView 5.x local support included, remote functionality as option
- Disaster recovery with Recover Pro as option
- Thermal management (temperature-controlled)

Security
- External SmartCard reader / writer as option
- F-Secure virus scanner with one-year upgradeability for signature files

Convenience / Ergonomics
- USB or USB / Audio connectors in front panel as option
- Xontrol™: Reduces CD vibration noise
- Internal speaker to play audio files
- SafeStandby
  In Save to RAM mode, data is additionally stored on hard disk; no data loss in case of power loss

Serviceability
- EasyChange:
  Tool less access to hard disk drives
- FlexySlots:
  Low profile and standard PCI / AGP / PCI-Express cards useable in flexible extension slots

Environmental sustainable development including product concept, design, material and manufacturing

Development
- Construction guidelines (FSC 03230) for products in respect to environmental sustainability

Production
- Special solder technology
  - o Soldering in N2 atmosphere
  - o Water based flux
- Reduced water consumption:
  - o No washing of board after soldering
  - o Washing of production equipment in a closed loop
- Production certified to ISO14001 – the international standard for environmental management systems

Material
- Halogen free cabinet plastic parts
- Halogen free plastic form parts

Ergonomics
- Low sound level fulfilling Blue Angel requirements
- Silent system due to fan regulation with thermal management
- Power saving with ACPI and IA-PC (Instantly available PC)

Transportation
- Bulk delivery, reusable transport packaging and recycling of packaging avoids waste
- Bulk packaging of PC for Large Accounts (no single packaging per system)
- Retraction of transport packaging

Recycling
- Returned old systems are recycled properly: For detailed information about recycling please have a look at: http://www.fujitsu-siemens.com/recycling

Software Suites

Manage IT Suite Migration
- Increase efficiency of software and operating system deployment, manage software patches and migrate user settings with Altiris software solutions

Manage IT Suite Controlling [3]
- Enhance your multivendor hard- and software inventory, manage the use of application software licenses effectively and support your end user remotely with software solutions from Altiris

3) Manage IT Suite Migration mandatory

SecureIT Suite[1]
- SmartCard
- SICRYPT SMARTY: Windows access protection with SmartCard
- SmartCase™: Simple and secure password storage, file encryption for data protection
- E-Mail encryption with SmartCard[2]

1) SmartCard reader / writer mandatory
2) uses native support from Microsoft Windows operating systems

SCENIC	P300	P300	P320
Microsoft Windows XP Professional	preinstalled	preinstalled	preinstalled
Chipset	SiS661FX	Intel 865G	Intel 915G Express
Micro-ATX Mainboard	D1761-A	D1561-C23	D1931
Microprocessor			
Intel Celeron Processor	Up to 2.8 GHz	Up to 2.8 GHz	D335
Front Side Bus (MHz)	400	400	
Intel Pentium 4 Processor	Up to 2.8 GHz	Up to 2.8 GHz	
Intel Pentium 4 Processor with Hyper-Threading technology	Up to 3.2 GHz	Up to 3.2 GHz	520, 530
Front Side Bus (MHz)	533 or 800	533 or 800	533 or 800
Second-level cache integrated (KB) on die	128 or 512	128 or 512	256 or 1024
Processor socket	mPGA478	mPGA478	LGA775
System memory			
Max. DDR SDRAM (GB), DDR400	2 [7]	2 [2]	4 [1] [6]
Max. DDR SDRAM (GB), DDR333	2	4 [3]	-
DIMM slots	2	4	4
Flash-EPROM BIOS update by software	x	x	x
Interfaces (see also page 3)			
2nd serial interface	-	optional	-
Universal Serial Bus (2.0, in total)	6	8	8
of these rear (integrated in I/O shield)	4	4	4
of them rear	2x optional	2x optional	2x optional
of these in front	1 or 2 x optional	1 or 2 x optional	2x optional
Audio in front	optional	optional	optional
I/O controller			
Fast IDE/Ultra DMA-100 busmaster capability	for 2 x 2 drives	for 2 x 2 drives	for 1 x 2 drives
Serial ATA for 2 drives	-	for 2 drives	for 2 drives
LAN			
On board, Fast Ethernet with PXE bootcode, BootP bootcode on request (license compulsory), Wake-on-LAN	ADMtek AN983B	Intel 82562EI	Broadcom BCM5751
10/100 Mbit/s	x	-	-
10/100/1000 Mbit/s	-	x	x
Creatix WLAN CTX405 802.11b/g	optional	optional	optional
Audio on board AC'97	Realtek ALC655	AD1980	AD1986
Graphics			
Integrated in chipset	x	x	x
Shared memory depending on driver	32 MB or 64 MB	64 MB	128 MB
Plugged in AGP slot	optional	optional	-
Plugged in PCI Express x16 slot	-	-	optional
Graphics subsystem			
nVIDIA GeForce FX 5200 64 MB, Dual DVI, LP (AGP 8-speed; 300 MHz)	optional	optional	-
DVI extension adapter	-	optional	Optional, Dual Monitoring
Hard disk drive			
Ultra DMA-100 40 / 80 GB (7200 rpm, silent) [5]	optional	optional	-
Serial ATA 40 / 80 / 160 GB [5]	-	optional	optional
Slots with EasyFix (230 mm; 312 mm)			
PCI (of these FlexySlots)	3 (1)	3 (1)	2 (1)
PCI Express x1	-	-	1
AGP 8x (of these FlexySlots)	1 (1)	1 (1)	-
PCI Express x16			1 (1)
Electrical values			
Max. output of power supply	210 W	210 W	280 W

Memory module configuration Intel 865 chipset (Example)				Memory module configuration Intel 915 chipset (Example)			
Channel 1	Channel 2	Dual Channel	Total Capacity	Channel 1	Channel 2	Dual Channel	Total Capacity
256 MB	256 MB	X	512 MB	256 MB	256 MB	X	512 MB
256 MB 256 MB		--	512 MB	256 MB 256 MB	512 MB	X	1024 MB
256 MB 256 MB	256 MB 256 MB	X	1024 MB	256 MB 512 MB	256 MB	--	1024 MB

1) for dual channel, 2 memory modules have to be ordered
2) dual channel, delivery in pairs
3) single channel, In 4GB configurations the visible memory may be reduced down to 3.5GB (depending on system configuration).
4) dual channel, delivery in pairs
5) 1 Gbyte equals one billion bytes, when referring to hard disk drive capacity; accessible capacity may vary, also depending on used software and tools
6) 4GB address space thereof, max. 3GB DDR 400 usable for physical main memory.
7) With future memory modules

Intel Processor feature set reference table

Intel Pentium 4 Processor	Socket	Clock Speed (GHz)	Front side Bus (MHz)	L2 Cache (KB)	Technology
550	LGA 775	3.40	800	1024	HT
540	LGA 775	3.20	800	1024	HT
530	LGA 775	3.00	800	1024	HT
520	LGA 775	2.80	800	1024	HT

System details	P300	P300	P320
Chipset	SiS661FX	Intel 865G	Intel 915G Express
Noise for standard configuration			
A weighted sound power level L_{WAd} / Workplace related A-weighted sound pressure level LpAm (bystander positions) (ISO9296)			
L_{WAd} in B / L_{pAm} in dB (Stand by)	3.9 / 24	3.8 / 24	4,0B / 24dB
L_{WAd} in B / L_{pAm} in dB (Idle mode)	3.9 / 24	4.1 / 24	4,1B / 24dB
L_{WAd} in B / L_{pAm} in dB (Operation, HDD)	4.0 / 25	4.1 / 27	4,2B / 27dB
Power consumption for standard configuration (W)			
Peak (running application, CD in use)	≈ 130 W	≈ 155 W	173W
Average (running OS, Idle mode)	≈ 50 W	≈ 60 W	82W
Minimum (ACPI status S5, soft-off)	≈ 2.3 W	≈ 1.9 W	2,3W
Driver support available			
Microsoft Windows 2000 / Windows XP	On DUCD / Internet	On DUCD / Internet	On DUCD / Internet
Windows NT 4.0	On DUCD / Internet	On DUCD / Internet	Limited support on request
Windows 98	-	Internet	-

Operating Systems / Software

Microsoft Windows XP Professional	preinstalled
Microsoft Windows XP Home	preinstalled
Microsoft Office 2003 Basic	for special languages
Microsoft Office 2003 SBE	for special languages
Drivers and Utility CD (DUCD)	included
Desktop Management DeskView	on DUCD
F-Secure virus scanner	on DUCD
ManageIT Suites	optional
SecureIT Suite	optional

Fujitsu Siemens Computers recommends Microsoft® Windows® XP Professional for business.

Interfaces
1 x serial (9-pin, 16-byte FIFO, 16550-compatible)
1 x parallel (25-pin, with EPP and ECP)
1 x keyboard (PS/2), 1 x mouse (PS/2)
1 x monitor (15-pin, VGA)
1 x micro (mono), 1 x line in (stereo), 1 x line out (stereo, 1 Watt)
1 x LAN RJ-45

Graphics recommended refresh rates (Hz)
(color depth up to 32 Bit /pixel)

Resolution	SIS	865G	915G	GeForce FX
800x600	120	120	120	120
1024x768	120	120	120	120
1152x864	-	100	100	120
1280x1024	85	100	100	100
1600x1200	75	75	85	85

Floppy disk drive	optional, 3.5-inch, 1.44 MB

DVD / CD drive optional
48-speed ATAPI CD-ROM
16/48-speed ATAPI DVD-ROM
48/24/48/16-speed ATAPI CD-RW / DVD-ROM
4/8/16/32/12/ 40-speed ATAPI DVD+R / +RW

Drive bays	5
external	1 x 3.5-inch, 2 x 5.25-inch
internal	2 x 3.5-inch

Electrical values

Rated voltage	100 - 127 / 200 - 240 V
Rated frequency	50 - 60 Hz

Temperature / dimensions / weight
Ambient temperature	15°C - 35°C (IEC 721)
Dimensions (H x W x D)	372 x 202 x 376 mm
Weight	approx. 11 kg (dep. on config.)

Product safety / EMC / Environment / Approvals:
CE certification	according to EU Directives 89/336/EEC (EMC) and 73/23/EEC (Product safety)
Ergonomics	ISO9241 (GS mark)

Compliance with standards
Product safety	IEC60950, EN60950, UL 60950, CSA22.2 No.60950
Electromagn. compatibility	EN55022/B, FCC class B EN55024, EN61000-3-2/3
Environmental compatibility	Energy Star

Compatibility (references)
Microsoft Operating Systems (HCT / HCL entry)
PC 2001, DMI 2.0, WMI 1.5, USB 2.0, Hyper-Threading

Client management
DeskView management software on CD and downloadable: Inventory management, monitoring of all main functions, BIOS management

Security functions
Security functions implemented in the cabinet:
- Prepared for Kensington lock for access and theft protection
- Eye for padlock for access and theft protection
- Seal option
- Access protection via external SmartCard reader (option)

Security function implemented in the BIOS:
- Write protect option for the Flash EPROM
- Passwords for system, setup and hard disk drive
- Enable / disable interfaces incl. USB
- Boot and write protection for floppy disk and CD drive
- Virus protection in BIOS