We make sure

FUJITSU COMPUTERS
SIEMENS

SCENIC® C620 Green PC
Small Form Factor PC

Issue   December 2004

Pages   4

The SCENIC C620 is built with specially selected material to minimize impact on the environment. Development, production, transportation and recycling are optimized to the aspect of environmental sustainability and aligned to strong internal environmental directives.

Don't be fooled from the size of the SCENIC C620. Although it's a small system it presents latest chipset and processor technologies and offers Multibay functionality like a notebook. Make profit from the small form factor design because you need less space. This will lower your office rental costs.

Working with the SCENIC C620 is stress-free. It is small, ergonomic, silent and reliable. It is easy to administrate and secure. In short, this highly reliable premium PC is particularly tailor-made to your business demands.

Tailor-made
- Fully configurable: processor, memory, drives, add on cards
- 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
- Trusted platform module (TPM) provides more secure applications and makes transaction trust worthy(option)

Ergonomics
- Product and manufacturing concept to minimize the impact on the environment
- 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 and EasyFix: tool less access to hard disk drive, card
- Enhanced flexibility with FlexySlot: Low profile and standard PCI card useable in flexible extension slot
- Excellent resolution and video quality with on board graphic
- Convenient front access to USB and audio
- Internal speaker to play audio files
- Blue Angel certification due to low energy consumption and recyclability
- Flexible usage as tower or desktop to your convenience

Unique SCENIC features

Reliability
- Wide range power supply
- Power supply monitoring
- System monitoring

Manageabilty
- Desktop management local and remote support with DeskView
- Disaster recovery with Recover Pro as option
- Thermal management (temperature-regulated)
- Intrusion detection switch as option
- Alert on LAN with heartbeat

Security
- Integrated cabinet lock in front panel as option
- External SmartCard reader / writer as option
- Internal SmartCard reader / writer as option (PowerOn)
- System Lock incl. hard disk password support
- Alert on LAN with heartbeat
- F-Secure virus scanner with one-year upgradeability for signature files

Convenience / Ergonomics
- On / off via appropriate keyboard
- USB / Audio connectors in front panel
- 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 drive
- EasyFix:
  Tool less access and fixing of add-on card
- FlexySlot:
  Low profile and standard PCI card useable in flexible extension slot

Tailor-made
- Made4you customizing using standard manufacturing and logistics processes

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

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

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

Material
- Lead free printed circuit board (PCB) and soldering process for mainboard, risercard and power supply Reduction of lead content per mainboard from 12 g to less than approx. 1 g for components and chipsets (Lead free Intel chipset i915 GV is used)
- Reduction of halogens for PCBs (mainboard, riser) (reduction of chlorides and bromine content from 12 % to under 0.15 % corresponding to global standard JPCA-ES-OA-1999)
- Halogen free cabinet plastic parts
- Halogen free plastic form parts
- Cr6 free cabinet

Ergonomics
- Low sound level fulfilling Blue Angel requirements
- Silent system due to fan regulation with thermal management
- Silent systems with fan speed control (patented)
- 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
- 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

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]
- SystemLock with SmartCard: Pre-boot access protection

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

Operating Systems / Software

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

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

Mainboard D1944 with

Microprocessor (GHz)	Intel Celeron D 330, 335
	Intel Pentium 4 520, 530, 540, 550
Processor Socket	LGA775
Chipset	Intel 915GV Express
System memory (GB)	up to 4[3)], DDR 400[1)]
DIMM slots	4
Flash EPROM	BIOS update by software
System management	ASIC on board

Interfaces
2 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) in front, 1 x headphone in front
1 x line out (stereo, 1 W) rear
1 x micro (mono) rear
1 x line in (stereo) rear
1 x LAN RJ-45
8 x Universal Serial Bus (USB 2.0, in total)
　4 of them rear, 1 of them internal, 3 of them in front

I/O controller
Fast IDE / Ultra DMA-100 busmaster capability for 1 x 2 drives, Serial ATA for 2 drives

LAN
Broadcom BCM5751 on board (10/100/1000 MB/s), Wake-on-LAN, ASF 2.0 with PXE BootP bootcode flashable from DUCD as option
WLAN 802.11b/g as option (intern USB)

Audio on board
AC'97/AD1986

Graphics processor

Graphics processor	on board with shared memory up to 128 MB depending on chipset and driver

Graphics subsystem
DVI extension adapter via Risercard as option

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

Resolution	915GV
800 x 600	120
1024 x 768	120
1152 x 864	100
1280 x1024	100
1600x1200	85

Floppy disk drive	no
Hard disk drive	optional, Serial ATA, max. height 20mm
Formatted capacity	40 GB[2)] (7200 rpm)
DVD / CD drive	optional slim

8/24-speed ATAPI DVD-ROM slim
24/10/24/8-speed ATAPI CD-RW / DVD-ROM

Multibay	optional slim

(available in Jan. 05)
24/10/24/8 CD RW - DVD

Slots	1 x PCI (174 mm) as option
Drive bays	2
external	1 x 5.25-inch slimline
internal	1 x 3.5-inch

Electrical values

Rated voltage	100 - 240 V
Rated frequency	50 - 60 Hz
Max. output of power supply	240 W

Power consumption for standard configurations

Peak (running application, CD in use)	171W
Average (running OS, Idle mode)	75W
Minimum (ACPI status S5, soft-off)	2,4W

1) for dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same
2) 1 Gbyte equals one billion bytes, when referring to hard disk drive capacity; accessible capacity may vary, also depending on used software and tools
3) 4GB address space thereof, max. 3,0 GB DDR 400 usable for physical main memory

Intel Processor feature set reference table					
Intel Celeron Processor	Socket	Clock Speed (GHz)	Front side Bus (MHz)	L2 Cache (KB)	Technology
D330	LGA 775	2.66	533	256	
D335	LGA 775	2.8	533	256	
Intel Pentium 4 Processor					
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

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

Temperature / noise / dimensions / weight

Ambient temperature 15°C - 35°C (IEC 721)

A weighted sound power level L_{WAd} / Workplace related A-weighted sound pressure level L_{pAm} (bystander positions) (ISO9296), (for standard configuration)

LWAd in B / LpAm in dB (Idle mode)	3.9/25
LWAd in B / LpAm in dB (Operation, HDD)	4.5/31
Dimensions (H x W x D)	87 x 292 x 325 mm
Weight	7 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, EN55024 EN61000-3-2/3, FCC class B
Environmental compatibility	Energy Star

Desktop management

DeskView management software on CD, configuration data, monitoring of all main functions, integration in management software over DMI 2.0 and SNMP

Security functions

Security functions implemented in the cabinet:

- Mechanical case lock as option
- Intrusion detection as option
- Prepared for Kensington lock for access and theft protection
- Eye for padlock for access and theft protection
- Seal option
- Access protection via SmartCard reader as option

Security function implemented in the BIOS:

- Boot protection with SmartCard optional
- 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

Compatibility (references)

Microsoft operating systems (HCT / HCL entry)

DMI 2.0, WMI 1.5, USB 2.0

Drivers for Microsoft Windows 2000 and Windows XP systems can be found on DUCD are downloadable from http://www.fujitsu-siemens.com