

Announcement of Embedded/Sinem PC in self-service systems

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Embedded/Sinem PC in self-service systems:



General

The Embedded PC is replacing the SENIC 651/661 series in our self-service systems. The Embedded PC is available as standard in a high end variant and a less expensive low end variant. The housing is made of metal and the dimensions are almost identical with those of the SCENIC 6XX series. The main differences from the previous SCENIC 6XX series are as follows:

- S3 Grafik Controller on board
- Audio Controller AC97 on board (only High End Version)
- inset of V.24 Multiportcard "FitWin"
- configuration optionally with the PC card ,Panellink-Bridge' to connect a LCD-Monitor

Overview of PC variants

PC type	Sinem Low End Material number 01750034503	Sinem High End Material number 01750031810
Processor	Celeron 433	Pentium III 600
SL cache	128 KB	256 KB
RAM Dimm	64 MB	64 MB
HDD	10.2 GB IDE	10.2 GB
CD-ROM	52 x IDE	52 x IDE
Audio On Board	-	VIA - AC97
VGA On Board	S3 (VIA)	S3 (VIA)
Slots	4 PCI 1 ISA / PCI	4 PCI 1 ISA / PCI

System affiliation

The Embedded PC will be deployed in the self-service systems:

ProCash 2150
ProCash 2050
ProCash 2000
ProCash 3100
ProCash 2156
Pro Info
Pro Consult
Orbiter

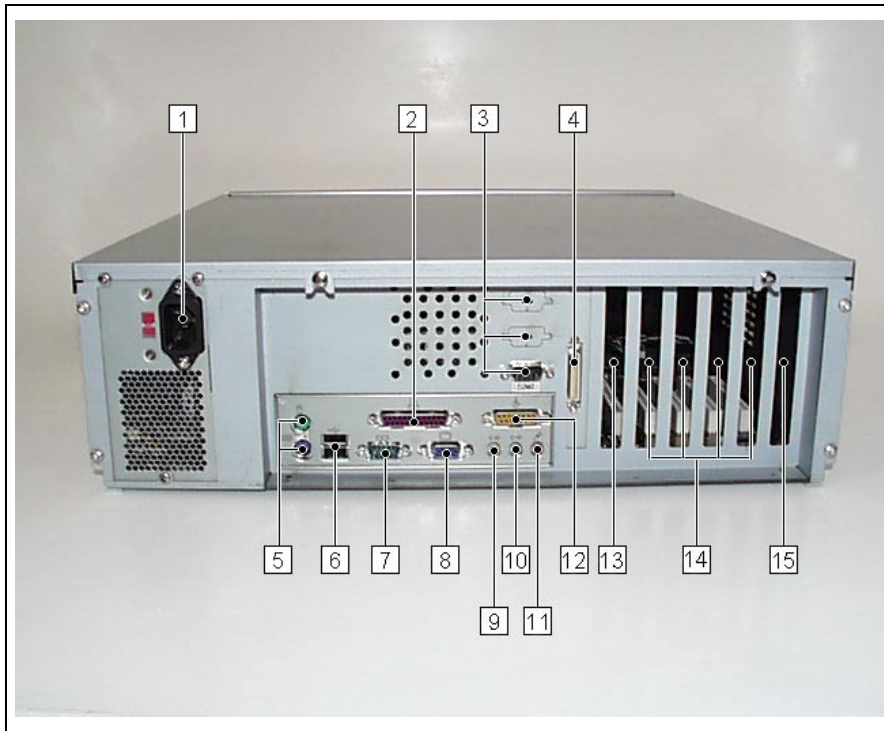
Hardware**Technical data****Intel Celeron 433 MHz (Low End Version)****ATX motherboard**

Chip set	VIA VT8605 / 686 A
Microprocessor	Intel Celeron 433 MHz
Processor base	Slot 1
Front side bus	66 MHz
Main memory	64 MB (default)
DIMM slot	2 (SDRAM)
Flash EPROM	BIOS update via diskette possible

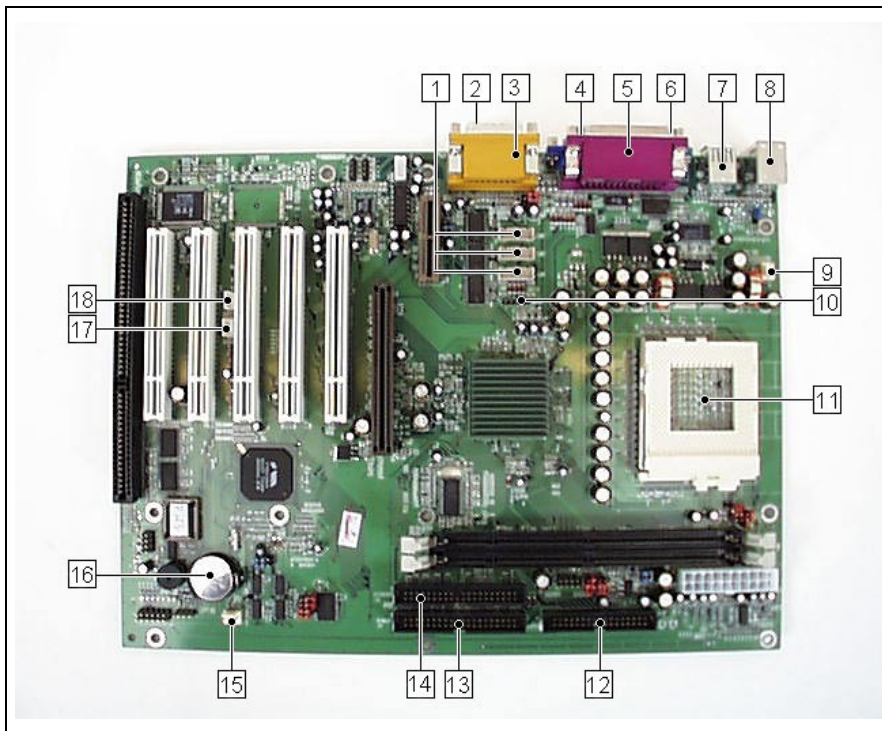
Interfaces (device rear side)	1 x serial (9 pin)
	1 x parallel (25 pin, EPP, ECP)
	1 x keyboard (PS/2)

	1 x mouse (PS/2) 2 x USB 1 x CRT
Interfaces (internal)	2 x IDE, primary & secondary 1 x floppy 1 x Wake-on-LAN 1 x Wake-on-Modem
Floppy disk drive	3.5", 1.44 MB
Hard disk controller Hard disk capacity	min. 10 GB
CD-ROM drive	ATAPI (52x)
Slots	1 x AMR (for PL option) 1 x AGP 4 x PCI 1 x ISA / PCI
Electrical ratings Supply voltage Line frequency Max. power dissipation	110 – 120V / 220 – 240V (selectable) 50 – 60 Hz 145 Watt
Dimensions Dimensions (WxDxH)	135 x 440 x 400 mm
Compatibility (references)	Microsoft operating systems (DOS, WIN 95 / 98 / NT) OS/2
Intel Pentium III 600 MHz (High End Version)	
ATX motherboard	
Chip set	VIA VT8605 / 686 A
Microprocessor	Intel Pentium III 600 MHz
Processor base	Slot 1
Front side bus	100 MHz
Main memory	64 MB (default)
DIMM slot	2 (SDRAM)
Flash EPROM	BIOS update via diskette possible
Interfaces (rear side)	2 x serial (9 pin) 1 x parallel (25 pin, EPP, ECP) 1 x keyboard (PS/2) 1 x mouse (PS/2) 2 x USB

	1 x CRT
	1 x joystick
	1 x microphone
	1 x Line in
	1 x Line out / speaker out
Interfaces (internal)	2 x IDE, primary & secondary
	1 x floppy
	1 x Wake-on-LAN
Floppy disk drive	3.5", 1.44 MB
Hard disk controller	
Hard disk capacity	min. 10 GB
CD-ROM drive	ATAPI (52x)
Slots	1 x AMR (for PL option)
	1 x AGP
	4 x PCI
	1 x ISA / PCI
Electrical ratings	
Supply voltage	110 – 120V / 220 – 240V (selectable)
Line frequency	50 – 60 Hz
Max. power dissipation	145 Watt
Dimensions	
Dimensions (WxDxH)	135 x 440 x 400 mm
Compatibility (references)	Microsoft operating systems (DOS, WIN 95 / 98 / NT) OS/2

Device rear side

- | | |
|--|---|
| 1 Power input | 9 Loudspeaker / headphone /
Line (out) |
| 2 LPT1 | 10 Line (in) |
| 3 COM 2 to COM 4 (from
bottom) | 11 Microphone |
| 4 LCD monitor (panel link)
(optional) | 12 MIDI / Game port |
| 5 Keyboard and mouse | 13 AGP slot |
| 6 2 USB interfaces | 14 4 PCI slots |
| 7 COM 1 | 15 ISA / PCI slot |
| 8 CRT monitor | |

ATX motherboard

- | | | | |
|---|---|----|-----------------|
| 1 | COM 2 to COM 4 (from bottom) | 10 | IrDA |
| 2 | Loudspeaker / headphone / Line (out) & Line (in) & microphone | 11 | CPU |
| 3 | MIDI / game port | 12 | Floppy |
| 4 | CRT monitor | 13 | IDE (primary) |
| 5 | LPT1 | 14 | IDE (secondary) |
| 6 | COM 1 | 15 | Fan 2 (system) |
| 7 | 2 USB interfaces | 16 | Battery |
| 8 | Keyboard and mouse | 17 | Wake-on-Modem |
| 9 | Fan 1 (CPU) | 18 | Wake-on-LAN |

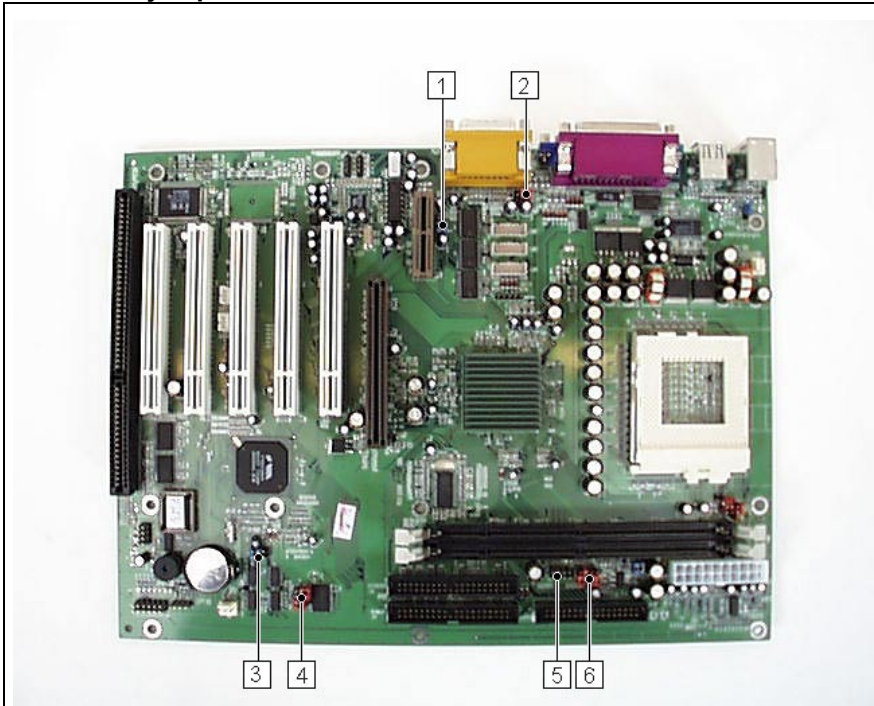
Lithium battery (CR2032)

There is a lithium battery on the motherboard for preserving the date, time and the CMOS. This battery needs to be changed about every three years.

**Danger of explosion if replaced improperly.**

Only use the same battery type or a type recommended by Wincor Nixdorf GmbH & Co. KG. The local regulations for the disposal of special waste should be observed when it comes to disposal.




Position of jumpers



- | | |
|-----------------|--------|
| 1 JP 16 / JP 17 | 4 JP 1 |
| 2 JP 19 / JP 20 | 5 JP 3 |
| 3 JP 6 | 6 JP 2 |

Jumper settings

Jumper 1: Clock signal		Default
Jumper 2: Assistant frequency		66 MHz
		100 MHz
		Automatic detection (Default)
		133 MHz
Jumper 3: Not jumpered		
Jumper 6: Erase CMOS		Normal (Default)
		Erase CMOS

Jumper 16 / Jumper 17: Serial interface 2		Default
Jumper 19 / Jumper 20: Audio		Loudspeaker / headphone
		Line (out)

IRQ table

System clock	IRQ0
Keyboard	IRQ1
PCI	IRQ2
Serial port COM2	IRQ3
Serial port COM1	IRQ4
Not used	IRQ5
FDD	IRQ6
Parallel port LPT1	IRQ7
RTC	IRQ8
VGA / not used	IRQ9
Serial port COM3 / not used	IRQ10
Serial port COM4 / not used	IRQ11
Mouse controller / not used	IRQ12
Numeric processor	IRQ13
IDE controller (primary)	IRQ14
IDE controller (secondary)	IRQ15

Pin assignment

COM1 (9 pin DSUB-M)

Pin	Name
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

COM2 to COM4 (9 pin DSUB-F)

Pin	Name
1	+ 12 VDC FS
2	RXD
3	TXD

4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	+ 5 VDC FS

LPT1 (25 pin DSUB-F)

Pin	I/O	Standard interface	Extended Capability Port (ECP)	Enhanced Parallel Port (EPP)
1	I/O	STROBE	STROBE	WRITE
2	I/O	D0	D0	D0
3	I/O	D1	D1	D1
4	I/O	D2	D2	D2
5	I/O	D3	D3	D3
6	I/O	D4	D4	D4
7	I/O	D5	D5	D5
8	I/O	D6	D6	D6
9	I/O	D7	D7	D7
10	I	ACK	ACK	INTR
11	I	BUSY	BUSY, PERIPHACK	WAIT
12	I	PE	PE, ACKREVERSE	PE
13	I	SLCT	SLCT	SLCT
14	O	AUTOFD	AUTOFD, HOSTACK	DATASTB
15	I	FAULT	FAULT, PERIPHREQST	FAULT
16	O	INIT	INIT, REVERSERQST	RESET
17	O	SLCTIN	SLCTIN	ADDRSTB
18		GND	GND	GND
19		GND	GND	GND
20		GND	GND	GND
21		GND	GND	GND
22		GND	GND	GND
23		GND	GND	GND
24		GND	GND	GND
25		GND	GND	GND

Keyboard / mouse

Pin	Name
1	Data
2	NC
3	GND
4	+ 5 V FS
5	Clock

6	NC
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USB

Pin	Name
1	+ 5 V FS
2	GND
3	3.3 V (differential USB signal USB_D+)
4	3.3 V (differential USB signal USB_D-)
5	3.3 V (differential USB signal USB_D-)
6	3.3 V (differential USB signal USB_D+)
7	GND
8	+ 5 V FS

IrDA

Pin	Name
1	VCC
2	NC
3	IRRX (infrared)
4	GND
5	IRTX (infrared)

CRT (15 pin DSUB-F)

Pin	Name
1	RED
2	GREEN
3	BLUE
4	NC
5	GND
6	GND
7	GND
8	GND
9	+ 5 V FS
10	GND
11	NC
12	MONID 1
13	HSYNC
14	VSYNC
15	MONID 2

BIOS-SETUP**BIOS-SETUP**

Bios version: V6.00 PG

Rel.: 7531114 A

Standard CMOS features

...	
Drive A	1.44M, 3.5 in.
Drive B	None
Video	EGA/VGA
Halt On	All , But Keyboard

Advanced BIOS features

Virus Warning	Disabled
CPU Internal Cache	Enabled
External Cache	Enabled
CPU L2 Cache ECC Checking	Disabled
Processor Number Feature	Disabled
Quick Power On Self Test	Enabled
First Boot Device	Floppy
Second Boot Device	HDD-0
Third Boot Device	CDROM
Boot Other Device	Enabled
Swap Floppy Drive	Disabled
Boot Up Floppy Seek	Disabled
Boot Up NumLock Status	On
Gate A20 Option	Normal
Typematic Rate Setting	Disabled
Security Option	Setup
PS/2 Mouse Function	Disabled <i>Default</i> Enabled <i>Mouse connected</i>
OS Select For DRAM > 64 MB	Non-OS2 <i>Default</i> OS2 <i>if OS2 and memory > 64 MB</i>
Video BIOS Shadow	Enabled
C8000-CBFFF Shadow	Disabled
...	

Advanced Chipset features

DRAM Timing By SPD	Disabled
DRAM Clock	Host Clock
SDRAM Cycle Length	3
Bank Interleave	Disabled
DRAM Drive Strength	Auto
Memory Hole	Disabled
P2C/C2P Concurrency	Enabled
Fast R-W Turn Around	Disabled
System BIOS Cacheable	Disabled
Video RAM Cacheable	Disabled
Frame Buffer Size	2M
	2 MB Video memory ATMs
	8M 8 MB Video memory Terminals
	4, 16, 32 Customer/application specific

AGP Aperture Size	64M	
AGP-4X Mode	Disabled	
AGP Driving Control	Auto	
On Chip USB	Disabled	
On Chip Sound	Disabled	<i>No audio wanted</i>
		Auto <i>Activate audio</i>
On Chip Modem	Disabled	
CPU to PCI Write Buffer	Enabled	
PCI Dynamic Bursting	Enabled	
PCI Master 0 WS Write	Enabled	
PCI Delay Transaction	Disabled	
PCI #2 Access #1 Retry	Enabled	
AGP Master 1 WS Write	Disabled	
AGP Master 1 WS Read	Disabled	

Integrated Peripherals

On Chip IDE Channel0	Enabled	
On Chip IDE Channel1	Enabled	<i>Default</i>
		<i>Disabled for PC2100</i>
IDE Prefetch Mode	Enabled	
Primary Master PIO	Auto	
Primary Slave PIO	Auto	
Secondary Master PIO	Auto	
Secondary Slave PIO	Auto	
Primary Master UDMA	Auto	
Primary Slave UDMA	Auto	
Secondary Master UDMA	Auto	
Secondary Slave UDMA	Auto	
Init Display First	PCI Slot	
LCD Display Mode	Mode 0	<i>CRT output only activated</i>
	Mode 1	<i>VGA LCD connected</i>
	Mode 2	<i>SVGA LCD connected (default)</i>
	Mode 3	<i>XGA LCD connected</i>
IDE HDD Block Mode	Enabled	
Onboard FDD Controller	Enabled	
Onboard Serial Port 1	3F8/IRQ4	
Onboard Serial Port 2	2F8/IRQ3	
UART 2 Mode	Standard	<i>Default</i>
		HPSIR,ASKIR <i>Infrared mode</i>
Onboard Parallel Port	378/IRQ7	<i>Default</i>
	3BC/IRQ7	<i>only by installed Backpack driver fewer than NT 4.11, OS/2 3.01, DOS 4.01 on the strength of floppy problems</i>
Onboard Parallel Mode	Normal	<i>Connection of standard printer</i>
		ECP <i>Connection of ECP printer</i>
ECP Mode use DMA	1	
Onboard Serial Port 3	Disabled	<i>COM3 switched off</i>
		3E8H <i>COM3 activated</i>
Serial Port 3 use	IRQ10	<i>IRQ reservation</i>
Onboard Serial Port 4	Disabled	<i>COM4 switched off</i>
	270H	<i>COM4 activated</i>
Serial Port 4 use	IRQ11	<i>Alternatively IRQ10 (IRQ's geshared)</i>
Onboard Legacy Audio	Disabled	<i>Audio onboard</i>
		<i>switched off</i>
		<i>Enabled Audio onboard activated</i>
Sound Blaster	Disabled	<i>No standard SB function</i>
		<i>Enabled SB compatibility necessary</i>
SB I/O Base Address	220H	

SB IRQ Select	IRQ 5
SB DMA Select	DMA 0
MPU-401	Disabled
MPU-401 I/O Address	330-333H
Game Port (200-207H)	Enabled

Power Management Setup

>	ACPI function	Disabled
	Power Management	Press Enter
	Power Management	User Define
	HDD Power Down	Disabled
	Doze Mode	Disabled
	Suspend Mode	Disabled
	PM Control by APM	No
	Video Off Option Suspend	-> Off
	Video Off Method	V/H SYNC+Blank
	Modem use IRQ 3	
	Soft-Off by PWRBTN	Instant-Off
	State After Power Failure	On
>	Wake Up Events	<i>Not relevant</i>

PNP/PCI configurations

PNP OS Installed	No	<i>with Win NT, OS2, DOS</i>
	Yes	<i>with Win 95/98 (ME/2000)</i>
Reset Configuration Data	Disabled	
Resources Controlled By	Manual	<i>Reservation for ISA card will follow</i>
> IRQ Resources	Press Enter	<i>Reserve IRQ</i>
> DMA Resources	Press Enter	<i>Reserve DMA</i>
PCI/VGA Palette Snoop	Disabled	
Assign IRQ for VGA	Disabled	
Assign IRQ for USB	Disabled	

Technical Changes in the PC

The technical changes to the PC and its components mean that new drivers are also required. The following table describes the changes to the SCENIC 6XX and the location of the drivers on the FRM CD or in the Intranet/Extranet.

Component	Up to now	New	Necessary driver
Grafic Controller	C&T69000 (Dotcard) or Matrox G200	S3 (VIA)	on CD* under -> CPU/Sinem/Video or Intranet/Extranet -> Software Download
Audio Controller	TT-Solo (optionally Audio card)	VIA-AC97	on CD* under -> CPU/Sinem/Audio or Intranet/Extranet -> Software Download
Multiport Card	RocketPort	Fitwin vide:	on CD* under -> MUX/Fitwin

		BCA01013 BCA01015	or Intranet/Extranet -> Software Download
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* The actual CD „CSC-FRM“ will be attached at the delivery of the system.

Expansion of the main memory:

There are two slots on the system module (Bank 1 and Bank 2) for installing the memory modules. DIMMs (Dual Inline Memory Modules) are used.

The maximum memory configuration is 512 Mbytes with 100/133 MHz SDRAM memory modules.

Support concept:

Support by the operator:

The user guide contains information on “Care and cleaning” as well as “Safety advice” for the operator.

Support by the engineer:

Faults can primarily be located on the basis of the information provided by the operator. Additional information can be gathered by running a self-test on a number of components and by using offline test programs (SDIAG).

There is no need for preventive maintenance or for electrical or mechanical adjustments.

There is no provision for the repair of modules and components in the regions. Faulty parts are replaced in their entirety.

Maintenance aids

The following test options are available for testing the Embedded PC.

Power On Self-Test

Power-up test after switch-on

SDIAG/AMIDIAG/PC Doctor test programs

Please use an SDIAG version that has been modified for the Embedded PC in order to test the system. This will soon be available to download from the Intranet/Extranet under Software/Test Programs.

For a more comprehensive and thorough-going test we recommend using the AMIDIAG test program or PC-Doctor.

The SDIAG/AMIDIAG/PC Doctor test programs cannot be used to test all components in the system unit.

Separate test programs or program extensions are to be used for add-on cards (DC cards, V.24 multiport cards, etc.)

Firmware/drivers & utilities

The “CSC-FRM“ CD is enclosed with each self-service system delivered and contains current drivers, firmware and separate diagnostics programs (e.g. DC cards).

Documentation:

The Embedded PC service manual is not available separately, but is integrated in the system-specific service documentation for the product.

Spare parts:

Name	Material no:
Embedded PC High-end	01750031810
Embedded PC Low-end	01750034503
64MB SDRAM	0131701830
Mainboard	01750031813
Power Supply	01750031969
CD-ROM Drive Multi Read 52x	01750034491
Floppy Disk Drive 1	01750015569
Hard Disk 10,2 GB 3.5AT	01750034137
CPU PIII	A3C40017269
Celeron/MMX 433MHZ	A3C40009602
CMOS Lithium Batterie Typ CR2032	
Panel Link Bridge	01750032008

Training

Separate training courses are not planned.

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