

GCS65-EC

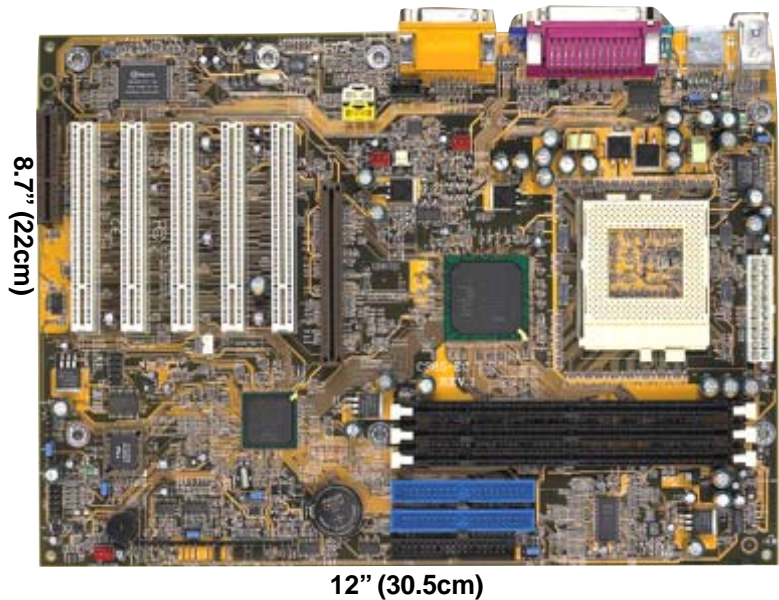
Intel® Pentium® III Processor and Intel® Celeron® Processor

ATX board with 5 PCI slots, on-board Audio and Video

Introduced: Q1/2001

The CS65-EC motherboard offers industrial users the high performance processing power of Intel® Pentium® III processors in the FC-PGA packaging. It can also use the economical Socket 370-based Intel® Celeron® processors.

The CS65-EC features the Intel® 815E chipset on an ATX format motherboard. The chipset features an integrated graphics accelerator. The motherboard has an AGP card slot that will support a 4X AGP card when ultimate video performance is needed. The CS65-EC provides 5



full-length PCI slots to support large system configurations and it also has a Communication and Networking Riser (CNR) slot for additional system flexibility. When the CNR slot is used, PCI expansion is four slots.

The CS65-EC is produced under strict revision control guidelines to provide a long product life cycle. This makes it ideal for telephony, industrial control, medical imaging, security, video editing, and gaming.

Features:

- Long and stable product life cycle
- Integrated video accelerator; AGP slot for optional 2X4X AGP video card
- On-board audio: AC 97 code with Yamaha AP
- CNR expansion slot
- Intel® 815E chipset with 60/ 100/ 133MHz front side bus
- Monitors fan speed, temperature, and power supply voltages



CS65-EC Revision Controlled Motherboard

PROCESSOR

- Intel® Celeron® Processor to 700 MHz @ 66 MHz FSB
- Intel® Pentium® III (FC-PGA) Processor to 1 GHz @ 133 MHz FSB
- Intel® Pentium® III (FC-PGA) Processor to 850 MHz @ 100 MHz FSB
- Socket 370-based Intel® with a switching voltage regulator that automatically detects required processor voltage (1.30-2.05V)

CHIPSET

- Intel® 815E chipset
- Intel® ICH2 Architecture for faster throughput
- 66, 100 and 133 MHz front side bus speed

CACHE MEMORY

- 128 KB on Intel® Celeron® processor
- 256 KB on Intel® Pentium® III processor

SYSTEM MEMORY

- 64 MB to 512 MB memory using unbuffered DIMMs
- Three 168-pin DIMM sockets
- Uses x64 SDRAM, 3.3V
 - PC-133 SDRAM DIMM for 133 MHz FSB processors
 - PC-100 SDRAM DIMM for 66 or 100 MHz FSB processors

BIOS

- Award BIOS 6.00PG, Windows® 95/98/2000 Plug and Play compatible
- Flash EPROM for easy BIOS upgrades (4 Mbit)
- Supports DMI 2.0 function
- Includes Symbios Logic SCSI BIOS
- Supports SCSI sequential boot-up

ONBOARD VGA GRAPHICS ACCELERATOR

- Intel® 3D graphics integrated into Intel® 815E chipset
- 3D hyper pipelined architecture
- Uses Dynamic Video Memory Technology (shares 1 MB)
- Windows 95/98/2000/NT 4.0 software drivers
- Software DVD playback at 30 fps
- Accepts optional 4MB Graphics Performance Accelerator (GPA) card in AGP slot
- 2X or 4X AGP video card may be used in place of the integrated graphics controller

ONBOARD AUDIO

- AC 97 supported with independent sample rate converters
- Supports Microsoft DirectSound
- 32 voice wavetable synthesizer

ENERGY EFFICIENT DESIGN

- Energy Star qualified
- Hardware supports SMI green mode
- Wake-On-Events include, RTC timer to power-on the system, modem wake-up/ring-on, Wake-On-LAN, Wake-On-Keyboard/Wake-On-Mouse, and wake-on-USB-keyboard
- CPU stopped clock control
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v1.0a specification
- Suspend to Ram (STR) function

PCI IDE INTERFACE

- Supports ATA/100 hard drives
- Ultra DMA/33, Ultra DMA/66 or Ultra DMA/100;
- DMA transfer rate up to 100 MB/sec
- PIO Mode 3 and Mode 4
- PIO mode data transfer rate up to 16.6MB/sec.
- Supports ATAPI CD-ROM, LS-120, ZIP sequential boot-up

DAMAGE FREE INTELLIGENCE

- Monitors processor/system temperature, with overheat alarm
- Monitors and failure alarm for 8 system voltages
- Monitors processor/system fan speed, with failure alarm
- Automatic chassis and processor fan control
- Read back capability; displays temperature, voltage and fan speed

INTEGRATED I/O

- Two NS16C550A-compatible high speed UARTs
- One SPP/ECP/EPP parallel port
- Supports 360k/720k/1.22M/1.44M/2.88MB, LS-120MB floppy drives

COMPATIBILITY

- Microsoft® PC 98 compliant
- PCI 2.2. CNR 1.0 "A" Type, and AC '97 compliant
- Intel® AGP version 2.0

CONNECTORS

- 2 external USB ports (2 additional USB ports available)
- 1 connector for IrDA interface
- 1 DB-9 serial ports
- 1 DB-25 parallel port
- 2 IDE connectors
- 1 floppy connector
- 1 PS/2 keyboard port; 1 PS/2 mouse port
- 1 20-pin ATX power supply connector
- 1 Wake-On-LAN connector; 1 wake-on-ring connector
- 3 audio jacks: line-out, line-in, and mic-in
- 1 DB-15 video connector
- 1 DB-15 game/MIDI port
- 3 fan connectors for CPU, chassis and auxiliary fans

EXPANSION SLOTS

- 5 PCI slots
- 1 CNR slot (max 4 PCI when CNR slot is used)
- 1 AGP slot, supports 4X/2X AGP

CIRCUIT BOARD (PCB)

- 4 layers, ATX form factor
- 30.5cm (12") x 22.0 cm (8.7")

SAFETY

- UL, CSA, FCC Class B, CE



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