

Pentium III/Celeron

CS65-EC

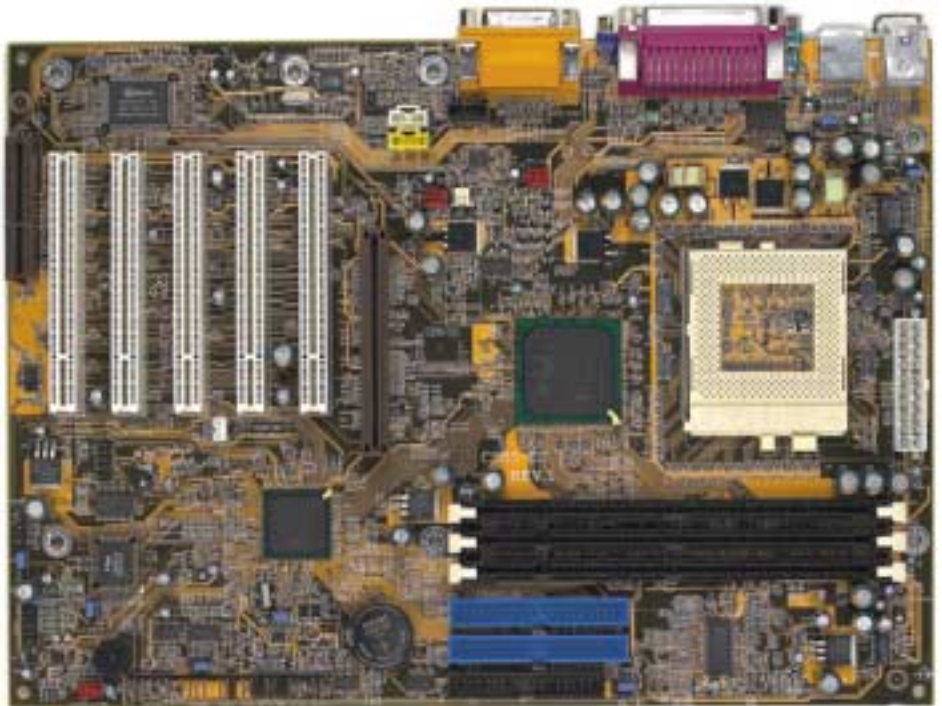
HIGH PERFORMANCE MOTHERBOARD

Socket 370 ATX motherboard for Pentium and Celeron processors. Intel 815E chipset. 133 MHz front side bus. 5 PCI expansion slots. Audio. Video. Watchdog timer. Thermal monitor.

The CS65-EC motherboard offers industrial users the advanced processing power of the latest Intel® Pentium® III processors in the FC-PGA package (Socket 370). It can also use the economical Socket 370 Intel Celeron™ processors.

The CS65 features the Intel 815E chipset with advanced architecture and support features on an industry standard ATX format motherboard. The chipset features an integrated graphics accelerator, and the motherboard also has an AGP card slot that will support a 4X AGP card when the ultimate video

performance is needed. The CS65 provides 5 full-length PCI slots to support large system configurations. 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.



Additional features:

- Integrated video accelerator; AGP slot for optional 2X/4X AGP video card
- On-board audio: AC 97 codec 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 to 700 MHz @ 66 MHz FSB
- Intel Pentium III (FC-PGA) to 1 GHz @ 133 MHz FSB
- Intel Pentium III (FC-PGA) to 850 MHz @ 100 MHz FSB
- Socket 370 with a switching voltage regulator that automatically detects required processor voltage (1.30-2.05V)

CHIPSET

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

CACHE MEMORY

- Celeron: 128 KB on processor
- Pentium III: 256 KB on 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 815E chip set
- 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")



8 Elkins Road
East Brunswick, NJ 08816
732-390-2815
Toll-free: 1-888-200-ITOX
FAX: 732-390-2817

Specifications subject to change without notice. ITOX is a registered trademark of ITOX, Inc. Other product names are registered trademarks or trademarks of their respective companies.

