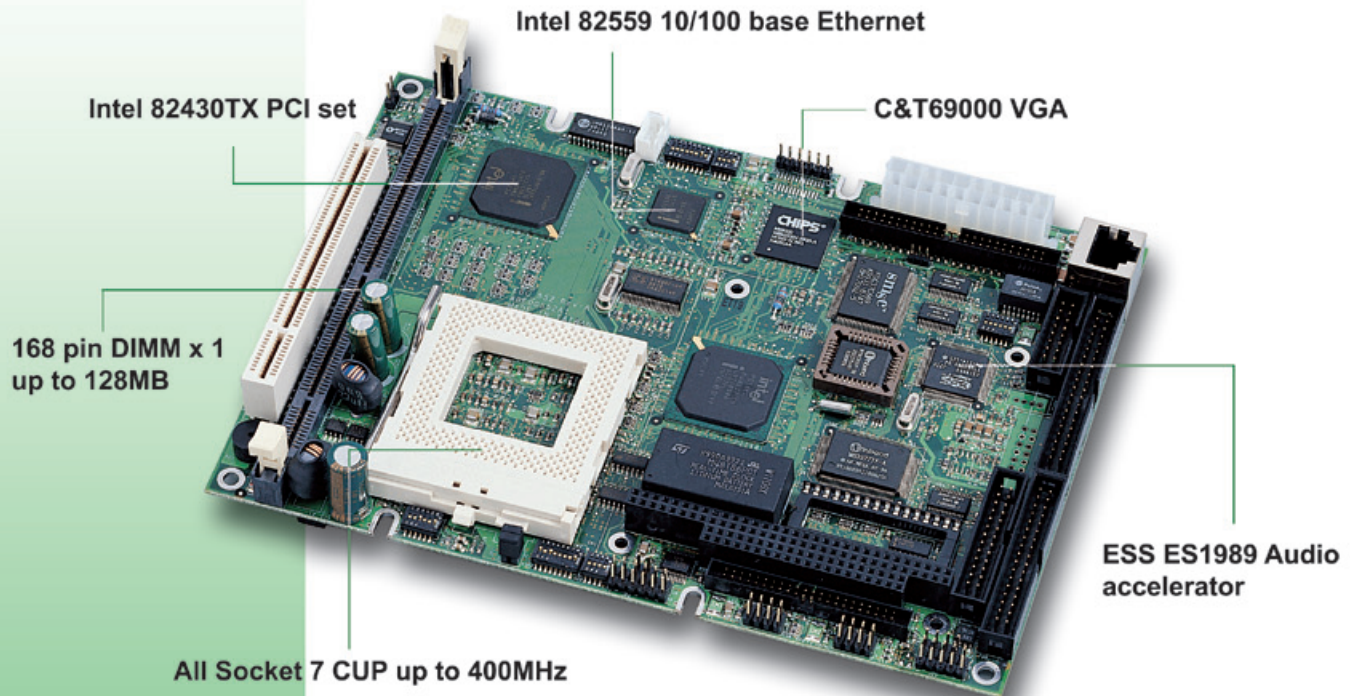


EBC 552

5.25" Socket 7 Embedded Controller
w/VGA/LAN/Audio

Intel Low Power CPU



Introduction

The EBC 552 is a 5.25" embedded controller built with high performance, cost-effective Pentium / Socket 7 CPU, high performance PCI Bus and I/O's, huge memory support (128MB), and support the Intel low power CPU. Furthermore, this is the first Pentium / Socket 7 embedded designed with the flexible expansion of both standard PC 104 and PCI connectors. The EBC 552 can run with Intel Pentium MMX processor up to 233 MHz, the low power Pentium MMX 266 MHz, AMD K6-2 up to 400 MHz, and memory support up to 128 MB SDRAM.

Features

- ◆ Intel Pentium MMX up to 266MHz, AMD K6 up to 400MHz
- ◆ 512KB P.B. SRAM cache
- ◆ 128MB SDRAM (Max.) memory support, DIMM x 1
- ◆ Intel 82430TX PCI set
- ◆ C&T 69000 VGA Controller with CRT/LCD support
- ◆ Intel 82559 10/100 Base Ethernet controller
- ◆ ESS ES1989 Audio accelerator
- ◆ PC 104 connector on board
- ◆ On board standard 32bit PCI slot
- ◆ On board socket for DiskOnChip up to 144MB
- ◆ 4S1P. IDE x 1. FDC x 1. RS-422/485 x 1

EBC 552

Specifications

System Architecture

- Mini board with standard 5.25" drive form factor
- Intel 430TX PCI set
- Support all socket 7 CPU up to 400 MHz
- PCI V2.1 complied

CPU Support

- Intel Pentium MMX CPU up to 266 MHz, AMD K6-2 CPU support up to 400 MHz
- Support the low power Pentium MMX 166/266 MHz CPU
- Support 66 MHz CPU clock

Cache Memory

- 512KB Pipeline Burst SRAM

Main Memory

- EDO/SDRAM memory support
- Up to 128MB (Max.)
- 168 pin DIMM socket×1

BIOS

- Award System BIOS
- Plug & Play support
- Advanced Power Management support
- Advanced Configuration & Power Interface support
- 2M bits flash ROM

Chip Set

- Intel 82430TX PCI set
- PCI V2.1 complied

On Board VGA

- C&T 69000 VGA controller
- TFT LCD/DSTN LCD/CRT control
- 2MB SDRAM on die
- Maximum Res. Color & Refresh Rate

Resolution	Colors	Refresh Rate (Hz)
1280×1024	256	60
1024×768	16bits (High color)	85, 75, 60
800×600	24bits (True color)	85, 75, 60

- Driver support: Windows 95/98, Windows NT4.0
- 16 pin Box header connector×1, 50 pin LCD connector×1

On Board LAN

- Intel 82559 Single Ethernet controller
- 10 Base T/100 Base TX support, full duplex
- Complied with PCI V2.1, IEEE802.3, IEEE 802.3U
- Backward compatible with former 82558 Ethernet controller base net modules
- Driver support: DOS/Windows, Windows 95/98, Windows NT4.0, Netware, SCO Open Server 5.0
- RJ45 connector×1

On Board Audio

- ESS ES1989 Allegro PCI Audio
- Integrated high-fidelity AC'97 codec
- Support multi-stream DirectSound and DirectSound 3D audio technology
- Support standard PCI 2.1 and 2.2 bus
- Driver support: DOS/Windows95/98, Windows NT4.0
- 14 pin integrated connector×1 (for MIC, Line in, Line out, Mono out, Phone out)

On Board I/O

- SMSC 37C669 & Winbond W83977 Super I/O on board
- SIO×4, with 4×16C550 UARTs, 40 pin integrated connector×1, optional RS422/485×1
- PIO×1, Bi-directional, EPP/ECP support, 26 pin×1
- Floppy Disk controller: 5.25×360K/1.2MB, 3.5×720K/1.2MB/1.44MB/2.88MB support, 34 pin connector×1
- On chip enhanced IDE×1, PIO up to mode 4, DMA master up to mode 2, Ultra DMA/33 support, 44 pin×1, total 2 E.IDE Devices support
- On chip keyboard, mouse controller, PS/2 Keyboard, mouse, 4×2 pin integrated connector×1
- On board USB port×2 (4×2 pin header×1)
- IrDA Pin reserved
- On board buzzer×1
- On board 2 pin header for reset SW, 4 pin for speaker, 5 pin for keylock

On Board RTC

- High precision real time clock/calendar with battery back up

On Board Solid State Disk Socket

- On board reserved socket for DOC of M-systems: 2MB~144MB, etc

System Monitor

- Winbond W83782D system monitor controller
- Six voltage (For +5V, -5V, +12V, -12V, 5V stand by and Vcore)
- One Fan speed (For CPU)
- One temperature
- Drivers support: Windows 95/98, Windows NT4.0

Standard PCI Slot

- One 32 bit standard PCI slot on board for expansion

On Board PC 104 Expansion

- One 16 bit PC104 connector on board

Watchdog Timer

- 1,2,4...64 seconds time-out intervals

Dimensions

- 203mm(L) × 146mm(W)

Power Requirements

- +5V: 10A (Max.)
- +12V: 500mA (Max.)
- +3.3V: 5A (Max.)

Environments

- Operating temperatures: 0°C to 60°C
- Storage temperatures: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

Certification

- CE approval
- FCC Class A

Model Available

EBC 552

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