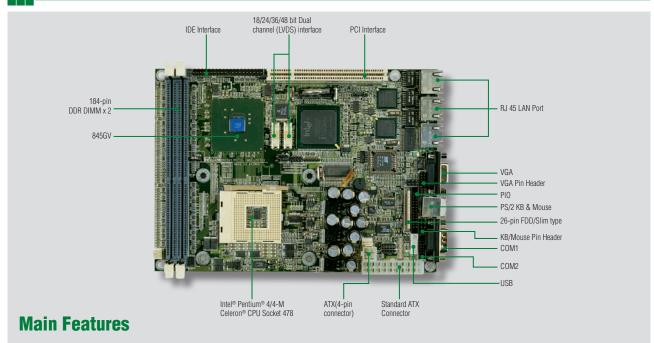
EBC 575

5.25" Intel® Pentium® 4 or Pentium® 4-M Embedded CPU Board with Triple LAN/LVDS/CF



- Socket 478 Supports Intel® Pentium® 4/Pentium® 4-M/Celeron® up to 3.06 GHz+ with 400/533 MHz FSB
- Intel® 845GV Chipset
- 2 x 184-pin DDR DIMM, Supports DDR 266/333 memory up to 2
- 3 x Intel® 82551 QM/82562EM 10/100 LAN
- CompactFlash Socket

Product Overview

The 5.25" form factor of EBC 575 embedded board with socket 478 that supports Intel® Pentium® 4 or Pentium® 4-M processors with 400/533 MHz FSB and various L2 cache. The EBC 575 incorporates Intel® 82845GV and 82801DB (ICH4) chipsets. The Intel® 82845GV supports un-buffered non-ECC DDR 266/333 memory up to 2 GB maximum and an integrated graphic controller with 64 MB VGA shared memory.

The low power consumption South Bridge ICH4 provides a PCI slot, parallel port, slim type floppy connector, 44-pin IDE connector, CompactFlash socket, and other versatile I/O ports, such as two serial ports, two USB 2.0 ports supported by a JST 6-pin connector, three 10/100 LAN ports, optional audio interface with the EBK AC'97 module and others. The EBC-575 Series with Pentium® 4/Pentium® 4-M processors offer high performance along with versatile display and I/O port configuration and can support the most demanding embedded applications.

Specifications

CPU Support

- Single mPGA478 ZIF socket
- Supports: Intel® Pentium® 4 processor up to 3.06 GHz with 400/533 MHz FSB, 512 KB L2 Cache
- Supports: Intel® Pentium® 4-M/Celeron processor up to 2.4 GHz with 400 MHz

Main Memory

- 2 x 184-pin DIMM sockets, supports up to 2 GB maximum unbuffered non-ECC DDR 266/333 SDRAM
- Does not support double-sided x 16 DDR Chip DIMMs
- · Does not support stacking type memory DIMMs

Chipset

- Intel® 845GV
- Intel® 82801DB (ICH4)
- 1 x Firmware Hub (FWH) 4 Mbit flash ROM

BIOS

- Award System BIOS
- · Plug & Play support

- ACPI 1.0 b compliant
- 4 Mbit flash ROM

On-board LAN

- 2 x Intel® 82551QM (PRO/100 Network Connection), 1 x ICH4 integrated LAN Int
- 3 x LAN connector: RJ45 with LED

Display

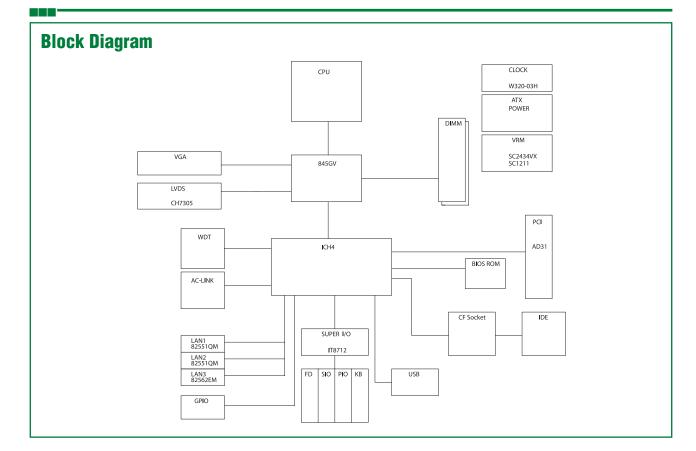
- Intel® 845GV chipset with integrated graphics controller
- Full PC98 and PC99 compliant
- 64 MB VGA shared memory
- · Hardware motion compensation assist for software MPEG/DVD decoding
- VGA: 1 x 15-pin D-sub connector (2x8-pin box header)

I/O Interface

- Serial port: 2 ports, with one 2x5 pin header, one D-sub connector
- USB 2.0: 2 ports, with 1x6 JST (2.0 mm)
- HDD: 1 x 44-pin connector, support Ultra ATA 33/66/100
- CF: 1 x CompactFlash Socket
- Parallel port: 1 port, with 2x13-pin box header, bi-directional, EPP/ECP support
- · Floppy: 1 x slim type connector

NE(COM Embedded CPU Boards





- PS/2 Keyboard/Mouse: 1 x 6-pin Mini-DIN connector
- AC'97 audio output: 1 x 10-pin header (support optional EBKAC97)
- CD-in / Line-in / Speaker-out: 3 x 4-pin connector
- Digital I/O: 4-bit TTL input, 4-bit TTL output
- On-board buzzer / SMBus 2.0 controller
- Reset Switch / IDE active LED / ATX power Switch: 3 x 2-pin header connector
- AUX: 1 x 12 V power 4-pin connector

On-board RTC

- On-chip RTC with battery back up
- 1 x External Lithium battery

Storage

 HDD: 1 x 44-pin connector, Ultra ATA 100/66/33 support 1 x CompactFlash Socket

System Monitor

 Derived from Super I/O ITE 8712F-A to support system voltage, fan speed, temperature monitoring

Power Input

• 20-pin ATX, 4-pin AUX power input connector

Power Requirements

 EBC 575 power consumption (ATX power) running HCT 95 on Windows 2000 server

We reserve the right to change specifications and product descriptions at any time without prior notice.

- Measured with P4 3.06 GHz
 - +12 V: 7.15 A
 - +5 V: 3.1 A
 - +3.3 V: 0.5 A
 - +5 Vsb: 0.8 A
- Measure with P4-M 2.4 GHz
 - +12 V: 3 A
 - +5 V: 2.7 A
 - +3.3 V: 0.5 A
 - +5 Vsb: 0.1 A

Dimensions

 5.25" form factor 203 mm (L) x 146 mm (W) (7.9" x 5.7")

Environment

- Board Level operating temperature: 0°C to 60°C
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

Certifications

- CE approval
- FCC Class A

Ordering Information

• EBC 575 (LF) (P/N: 1E00057500X0) RoHS Compliant 5.25" Intel® Pentium® 4/Celeron® Embedded CPU board with VGA/3 x LAN