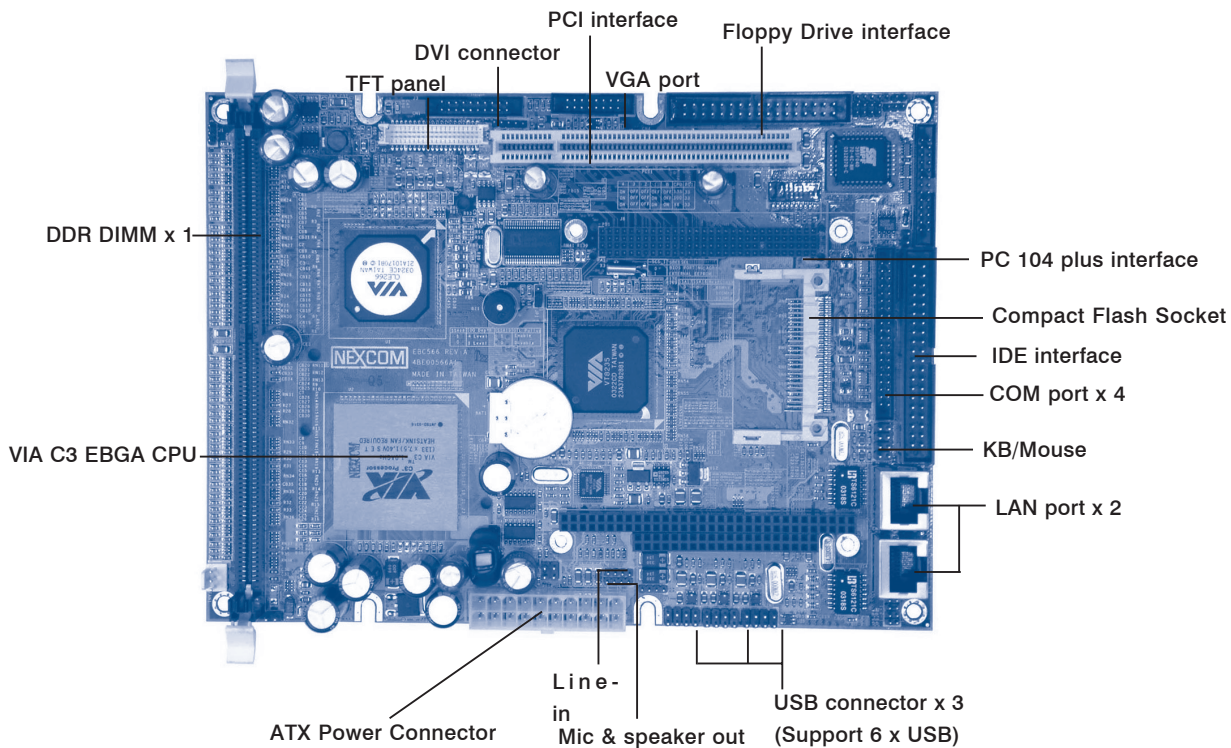


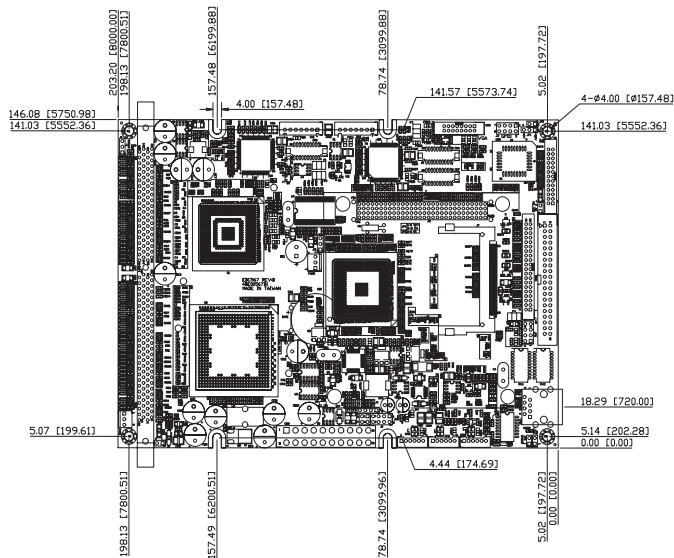
# EBC 566

5.25" VIA C3 embedded CPU board w/VGA/Dual LAN/LVDS/CF



## Features

- ◆ On-board VIA C3 400MHz ~ 1GHz processor with 100/133MHz FSB
- ◆ 184-pin DIMM x 1, support DDR 200/266 memory up to 1GB
- ◆ VIA 6105 10/100 LAN x 2
- ◆ Compact Flash
- ◆ USB 2.0 x 6
- ◆ PC 104 plus



## Specifications

### System Architecture

- ◆ 5.25" size form factor
- ◆ PCI V2.2 compliant

### CPU support

- ◆ Support 400 MHz~1 GHz CPU with 100/133 MHz FSB
- ◆ On-board VIA C3 Processor EBGA Package with 128KB/Level 1 and

64KB/Level 2 Cache

### Memory

- ◆ One 184-pin DDR SDRAM DIMM, support DDR 200/266 MHz SDRAM up to 1G

### BIOS

- ◆ Award system BIOS



- ◆ Advanced Power Management support
- ◆ Optional ACPI Support
- ◆ 4M bits flash ROM

## Chipset

- ◆ North Bridge VIA 8623 (CLE266) 100 /133 MHz
- ◆ VIA VT8235
- ◆ PCI V2.2 complied

## LAN

- ◆ VIA VT6105 10/100 Fast Ethernet Controllerx2
- ◆ Drivers support: DOS/ Windows, Windows 98/2000, Windows NT, Netware , SCO Open Server 5.0, Linux 7.2 or later, FreeBSD
- ◆ Interface : RJ45 connector x 2
- ◆ Support Boot from LAN

## Audio

- ◆ AC97 ver. 2.0 compliant interface from VT8235 Sound AC-97 Audio Interface CODEC: VT: 1616
- ◆ Audio interface: Line in (Internal), Microphone in, Speaker out (with Amplifier)

## VGA (Hardware Disable is needed)

- ◆ 16 Pin VGA Output (box header 2.00mm 8 x 2pin)
- ◆ 18/24 TTL TFT flat panel interface (DF-13 connector 40 pin X1), support LVDS panel VIA optional EBKLVDS66 or EBKLVDS2 module
- ◆ 12 bit DVI 1.0 compatible interface, 20 pin box header connector x 1, for driving flat panel using external TMDS encoder
- ◆ Support for panel resolutions up to 1600x1200
- ◆ Driver support Windows 98/2000, Windows NT4.0, Win XP, Linux
- ◆ VIA 8623 S3 Graphics UniChrome AGP8x 2D/3D graphics engine
- ◆ Optimized Shared Memory Architecture (SMA)
- ◆ 8/16/32/64 MB frame buffer using system memory
- ◆ Single cycle 128-bit (2D), 1 Pipe, 2 Texture, dedicated (3D) architecture
- ◆ Full internal AGP 8X performance
- ◆ Next generation, 128-bit 2D graphics engine
- ◆ High quality DVD video playback
- ◆ 2D/3D resolutions up to 1920x1440

## I/O Interface

- ◆ Power Header x 1 for LCD Panel Backlight
- ◆ COM reserved the RING pin to power Touch Screen LCD ( jumper select 5 or 12V or ring)
- ◆ 3 pin Power Connector for CPU FAN and Chassis FAN
- ◆ 2 pin IDE Active LED Header
- ◆ SIO<sup>4</sup>, with 4x16C550 UARTs, 40 pin 2.0mm box header X 1 ; one for RS-422/485
- ◆ PIO x 1, bi-directional, EPP/ECP support, 26 pin connector x1
- ◆ Floppy Disk controller! FDC pin connector x1
- ◆ 2 x 4 pin header connector x1, for PS/2 keyboard/mouse
- ◆ On-board USB port x 6, Jst 2.0mm x 3
- ◆ On-board buzzer x1
- ◆ Digital I/O: 4 bit TTL input and 4 bit TTL Output 2x4 2.00mm pin header
- ◆ On-board 3 pin header for I2C, one pin for GND
- ◆ On-board 5 pin header for IrDA Tx/Rx
- ◆ On-board 2 pin header for Reset SW
- ◆ On-board 2 pin header for power SW (ATX Mode)

## Expansion

- ◆ One 32 bit/33MHz PCI Slot support PCI Expansion
- ◆ PC104 PLUS connector x 1

## Real Time Clock

- ◆ On-chip RTC with battery back up
- ◆ External Li-Ion battery x 1

## Watchdog Timer

- ◆ Watchdog timeout can be programmable by Software from 1 to 255 seconds / minutes

## Dimension

- ◆ 203mm (L) x 146mm (W)

## System Monitor

- ◆ Derived from super I/O to support system monitor
- ◆ 5 voltage (For +3.3V, +5V, +12V, Vcore and +2.5V)
- ◆ Monitor CPU fan speed and temperature
- ◆ Drivers support: Windows®98/2000, WindowsR NT4.0

## Environments

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

## Certification

- ◆ CE
- ◆ FCC

## Power Requirements

- ◆ 20 pin power inport connector (standard ATX connector)
- ◆ Power consumption: EBC 566 Power Consumption (ATX Power) Running HCT 9.5 in Windows 2000 Server
- ◆ A. Measure with CPU 1.2GHz
  - ◆ a. +12V: 0.3A
  - ◆ b. +5V: 6A
  - ◆ c. +5vsb: 0.2A
- ◆ B. Measure with CPU 1GHz
  - ◆ a. +12V: 0.25A
  - ◆ b.+5V: 5.4A
  - ◆ c. 5vsb: 0.2A
- ◆ C. Measure with CPU 800MHz
  - ◆ a. +12V: 0.2A
  - ◆ b. +5V: 3.1A
  - ◆ c. 5vsb: 0.2A

## Ordering Information

### EBC 566LP8

5.25" VIA Embedded Board with on board Eden 800MHz CPU /2 x LAN/ VGA/Audio

### EBC 566

5.25" VIA Embedded Board with on board 1GHz CPU /2 x LAN/VGA/Audio

### EBC 566-12

5.25" VIA Embedded Board with on board 1.2GHz CPU /2 x LAN/VGA/ Audio

### Wiring Kit for EBC 566(Optional)

P/N:29E0056600

1 Single Board Computers

2 Industrial ATX MB

3 Passive Backplanes

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5 Embedded CPU Boards

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7 Network Security Appliances

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