

## **M1177 CV700A with On-board 1~3 LAN**

### **Processor :**

- . VIA V4 bus processor Eden or C3 or C7 (FSB400MHz) nano BGA2 400pin L1 128KB, L2 128KB
- . All basic x86 instructions , registers ,and functions
- . All floating-point(numeric processor) instructions , registers and functions
- . All basic operating modes : real mode, protect mode ,virtual-8086 mode
- . System Management Interrupt(SMI) and the associated System Management Mode (SMM)
- . All tasking functions (TSS , task switch ,etc.)
- . Processor initialization behavior
- . Page Global Enable feature
- . MMX instructions
- . SSE , SSE2 , and SSE3 instructions
- . PAT (Page Attribute Table)
- . VME (Virtual Mode Enhancements)
- . SYSENTER / SYSEXIT functions
- . ACE Advanced Cryptography Engine
- . RNG Random Number Generator
- . SHA-1 and SHA-256 Secure Hash Algorithm
- . Montgomery Multiplier
- . NX No Execute provides data execution protection support use in Microsoft Windows XP SP2.

### **System Chipset list:**

- . CPU : VIA V4 bus processor Eden or C3 or C7 (FSB400MHz)nano BGA2 400pin L1 128KB ,L2 128KB on die
- . MB chipset : VIA CN700 and VIA VT8237R Plus
- . VGA chipset : VIA CN700 Integrated Graphics chipset
- . Sound Chipset : AC97 Rev:2.1 Two channel SOUND

. LAN : Intel 82541PI or Realtek RTL8100C/RTL8110SB three type (option select).

. I/O : VT 1211 IO

. TV chipset : VT 1622A SDTV (option)

#### **Memory :**

. Supports DDR2 533 / 400 memory

. Supports mixed 64/128/256/1024Mbyte SDRAM in x 8 or x 16 width devices

. Supports CL 2/3/4/5 for DDR2 533 / 400

. Supports One unbuffered double-sided DIMMs up to 1GB

#### **Graphic / Video :**

. Optimized Unified Memory Architecture (UMA)

. Supports 16/32/64MB Frame Buffers size

. Graphics engine clocks up to 200MHz decoupled from memory clock

. Integrated Graphics with 2D/3D Acceleration feature

. RGB555,RGB565,RGB888 and YUV422 Video playback formats

. MPEG-2 hardware VLD(Various Length Decode)

. Idct and motion compensation

. For full speed DVD and MPEG-2 playback at full D1 resolution

. High quality DVD and streaming video playback

. DVD playback auto-flipping

. DVD sub-picture playback overlay

#### **PCI Bus Master IDE**

. Dual channel master mode hard disk controller supporting four Enhanced IDE devices

. Transfer rate up to 133MB/sec to cover PIO mode to 4 ,multi-word DMA mode 2 drivers, and Ultra DMA-133 interface

. Increased reliability using Ultra DMA-133 / 100 /66 transfer protocols

. Support ATAPI compliant devices including DVD device

. Support PCI native and ATA compatibility modes

. One 40pin 2.54mm and One 44pin 2.0mm two type connectors.

. Support One Compact Flash card type II for ATA interface.

#### **TV-out (option) :**

. Using VT1622A TV encode

. NTSC( M and J) or PAL ( B ,D , G , H , I , M , N and Nc ) TV output

. Graphics resolution up to 1024 x 768

. Automatic detection of TV presence

#### **Serial ATA :**

. One Channel connectors.

. S-ATA drive transfer rate is capable of up to 150MB/s

#### **Audio :**

. AC-Link for Audio CODEC

. Supports AC'97 2.1

. Support for up to two channels of PCM audio out

. CD-in / Mic-in / Line-in support

## USB :

- . Includes three UHCI host controllers that supports all ports
- . Includes one EHCI high-speed USB 2.0 Host Controller that supports all ports
- . Three ports external and Four or Three internal ports
- . Supports Legacy keyboard / mouse software.

## IO function :

- . LPC (Low Pin Count) Interface
- . Supports Hardware Monitor Controller
- . Two 16C550 UARTs RS232 port supports
- . Support One printer port
- . Support Infrared SIR and FIR

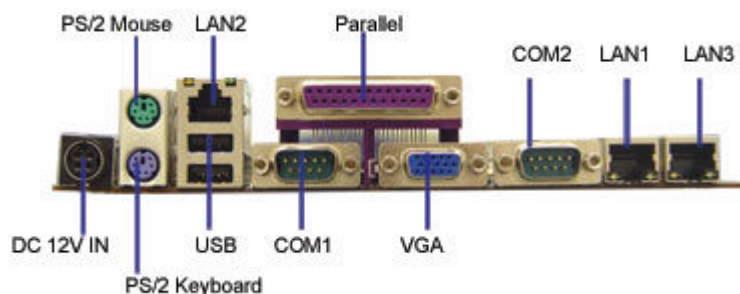
## LAN (Default Option 1 : 1~3 Realtek 10/100Mb )

## LAN (Option 2: 1~3 Realtek 10/100/Giga bit )

## LAN (Option 3: 1~3 Intel 10/100/Giga bit )

## Front Connector Header

- . One power switch for power on
- . One power LED
- . One HDD LED
- . One LAN LED
- . One Line-out Phone jack
- . One MIC-in Phone jack
- . One USB Type A port



## Back Panel Connectors

- . One DC 12V in power mini din jack
- . One down side PS2 Keyboard
- . One up side PS2 Mouse port
- . Three layer connector for Two ports USB and one LAN RJ45
- . One down side DB-9PIN COM port
- . One up side Printer port
- . One down side DB-15pin VGA port
- . One DB-9PIN COM port
- . Two LAN RJ45 port (3<sup>rd</sup> LAN.... see above)

## Expend Interface

- . One Mini PCI socket for only PCI rev:2.2 interface.

## Others function

- . One Compact Flash Reader for IDE BUS ATA type II spec

**DC 12V in** . On board power DC +12V +-5% convert into system +3.3v/+12v/+5v

**Dimension** . 200 x 150 mm

**Storage Temperatures** 0 ~ 60 degC

**Operating Temperatures**

CFD : 0 ~ 55 degC

HDD : 0 ~ 45 degC