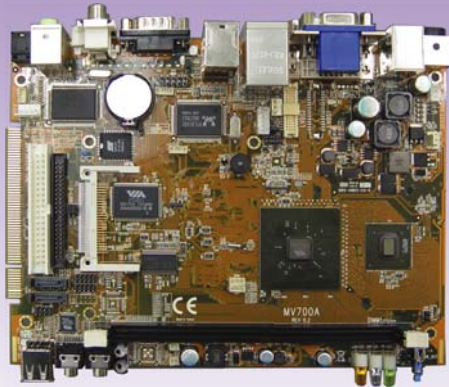


# Embedded Solution

# Multimedia application

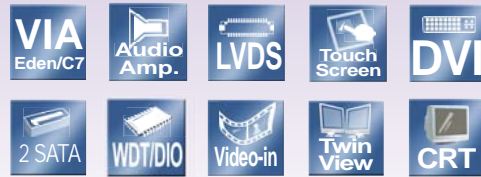


## MV700A Series

### Application

Multimedia Applications for VOD, STB, Home entertainment, and gaming

### Features



### Specifications

- . CPU type VIA V4 Eden / ULV or C7 Nano-BGA2 400 pin L1 128 KB, L2 128 KB on die
- . Front Side Bus 400 / 533 MHz
- . MB Chipset VIA CX700M
- . Graphics Integrated with VIA CX700M. Shared system memory up to 128 MB
- . LVDS/DVI 1. LVDS + DVI : Data format of 18 bits / 24 bits single-channel panel & one single-channel DVI panel  
2. Only DVI : 36 bit / 48 bits dual-channel LVDS panel.
- . Memory 1 x DDRII SDRAM ( max. 1GB )
- . IDE Ultra DMA-133 / 100 / 66. 1 x 40 pin 2.54mm, 1 x 44 pin 2.0mm. CF Card Type II for ATA interface
- . SATA 2 x SATA ports
- . Audio Intel HD Audio. Supports SPDIF-out
- . LAN 1 x Realtek 10 / 100 Mbps ( optional Realtek / Intel Gigabit )  
Intel 82541PI or Realtek RLT8100C / RLT8110SC LAN Chip
- . IO function 1 x RS232. Supports Infrared SIR & FIR
- . USB 5 x USB 2.0 ( 2 ~ 3 external + 2 ~ 4 internal )
- . Video-In 1 Conexant CX25878 chip for 1 port video-in
- . Audio Amplifier (option) 6-W / CH Into an 8-Ω Load from a 12-V Supply Up to 92% Efficient, Class-D operation Differential Input minimizes Common-Mode noise
- . CRT / HDTV Supports all NTSC & PAL formats. Supports HDTV & SDTV.  
Supports CRT resolution : 1920 x 1440 & TV resolution : 1920 x 1080i  
Provides S-Video & SCART ( no support for RGB signal ) ( option )
- . Touch Screen (option) USB interface Touch screen controller  
Supported 4-, 5-, 8- wire Analog Resistive Touch screen.  
USB 1.1 full speed sample rate maximum of 300 point / sec
- . DIO & WDT (option) Hardware digital Input & Output, 8 x DI / 8 x DO  
Hardware Watch Dog Timer, 0~255 sec programmable
- . Expand interface 1 x Mini PCI socket. 1 x PCI gold finger
- . Power On board DC +12V ± 5% convert to +3.3V / +5V / +12V for system
- . Dimension 200 x 150 mm
- . Operation Temp. 0 ~ 60 °C
- . Operation Humidity 5~95% @ 60 °C, non-condensing

### Ordering Information

- . MV700A-1R10U 1 LAN, 1 Ghz, VIA V4 Eden ULV processor
- . MV700A-1R15C 1 LAN, 1.5 Ghz, VIA V4 C7 processor
- . MV700A-FR10U 1 LAN, 1 Ghz, VIA V4 Eden ULV processor, Touch screen control board, LVDS

### Testing environment

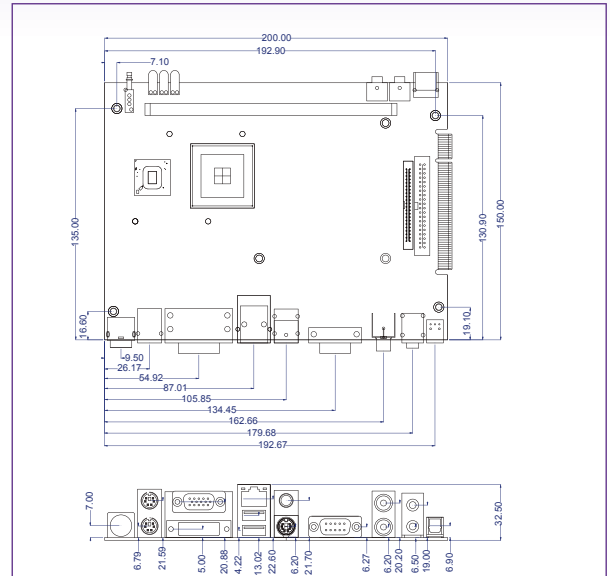
Model name : **MV700A-1R10U**  
 CPU : VIA Eden ULV 1 Ghz  
 Chipset : VIA CX700M  
 OS : WIN XP  
 Testing Program : 3D Mark 2001 SE

Fanless solution with CF card			
Chassis	Light	Neo	Twister
Temperature			
0°C	Pass	Pass	Pass
25°C	Pass	Pass	Pass
45°C	Pass	Pass	Pass
60°C	Pass	Pass	Pass

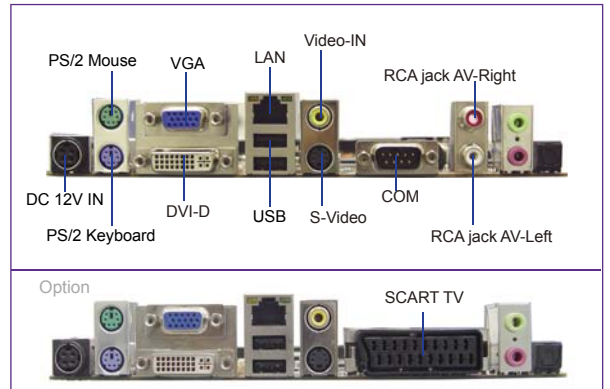
  

Fanless solution with 2.5" HDD			
Chassis	Light	Neo	Twister
Temperature			
0°C	Pass	Pass	Pass
25°C	Pass	Pass	Pass
40°C	Pass	Pass	Pass
45°C	Pass	Pass	Pass

### Dimension



### Back Panel



### Testing environment

Model name : **MV700A1R15C**  
 CPU : VIA C7 1.5 Ghz  
 Chipset : VIA CX700M  
 OS : WIN XP  
 Testing Program : 3D Mark 2001 SE

Fanless solution with CF card		
Chassis	Neo	Twister
Temperature		
0°C	Pass	Pass
25°C	Pass	Pass
45°C	Pass	Pass
60°C	Pass	Pass

Fanless solution with 2.5" HDD		
Chassis	Neo	Twister
Temperature		
0°C	Pass	Pass
25°C	Pass	Pass
40°C	Pass	Pass
45°C	Pass	Pass

Please upgrade the hard drive to industrial grade for better temperature performance.