

# Embedded Solution

# Multimedia application

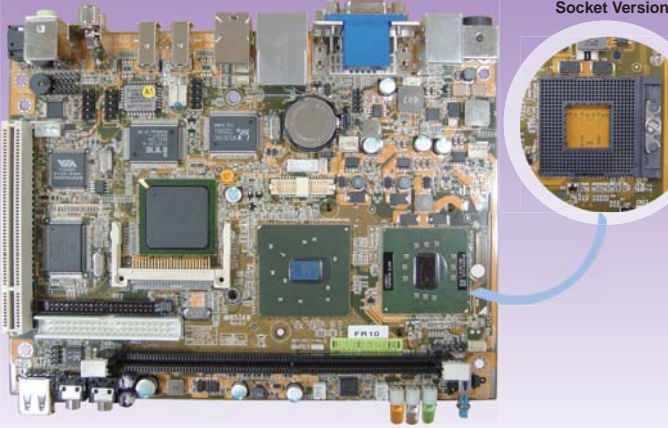
Networking

POS / Automation

DVR

Multimedia

Embedded System

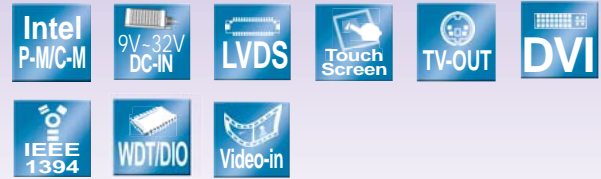


## MI853AW Series

### Application

Embedded IA, VOD, Video Capture server, Home conference, Security, Home MIDI, ATM, Set Top Box, PVR application

### Features



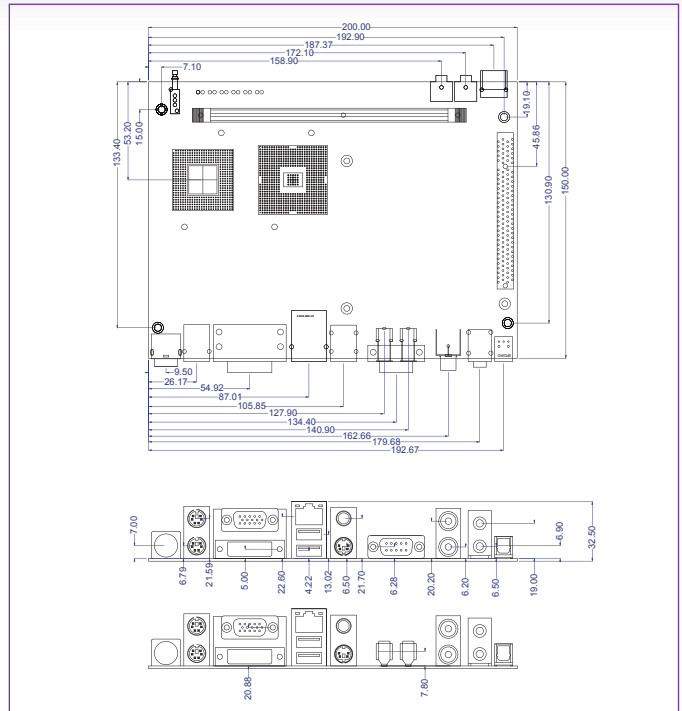
### Specifications

- . CPU type Intel Pentium M / Celeron M- Dothan processor
- . Front Side Bus 400 / 533 MHz
- . MB Chipset Intel 82852 GM / 82852 GME ( Socket ) + ICH4
- . Graphics Integrated with Intel 82852 GM / GME  
Shared system memory up to 64 MB
- . LVDS Data format of 18 bits / 36 bits
- . Memory 1 x DDR SDRAM ( max. 1GB )
- . IDE Ultra ATA 100 / 66 / 33, 1 x 40 pin 2.54mm, 1 x 44 pin 2.0mm  
CF Card Type II for ATA interface
- . Audio AC-Link for Audio CODEC, AC'97 2.3  
Supports Mic-in / Line-in / SPDIF OUT
- . LAN 1 x Realtek 10 / 100 Mbps ( optional Realtek / Intel Gigabit )  
Intel 82541PI or Realtek RLT8100C / RLT8110SB LAN Chip
- . IO function 2 x RS232  
1 x RX / RTS / TX for RS232 signal level In/out  
IrDA 1.0 / ASKIR protocol, PS/2 keyboard & mouse
- . USB 6 x USB 2.0 ( 2 external + 4 internal )
- . DVI Supports DVI-D. Transmitter up to 165M pixels / sec.
- . 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
- . IEEE1394A 2 ports PHY, 32 bit Power managed PCI bus interface
- . TV-OUT Supports all NTSC & PAL formats. Resolution : 1024 x 768  
Provides S-Video & 2 pin Header for CVBS TV-out connector.
- . Touch Screen (option) USB interface Touch screen controller  
Supports 4-, 5-, 8- wire Analog Resistive Touch screen  
USB 1.1 full speed sample rate maximum of 300 point / sec.
- . DIO & WDT 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 slot
- . Power Wide range DC-IN from +9V to +32V or  
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

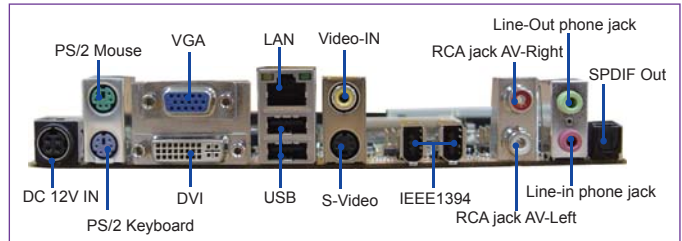
### Ordering Information

- . MI853AW-FR10 DIO / WDT, Touch Screen, Video-in, IEEE1394, Audio Amplifier, Wide range DC-IN
- . MI853A-1R10/1RXX Video-in, IEEE1394
- . MI853A-TR10/TRXX Video-in, IEEE1394, Touch Screen

### Dimension



### Back Panel



### Testing environment

Model name : MI853AW1R10  
 CPU : Intel Celeron M 1 Ghz  
 Chipset : Intel 82852 GM and Intel 82801DB ICH4  
 OS : WIN XP  
 Testing Program : 3D Mark 2001 SE

### Fanless solution with CF card

Chassis	Light	Neo	Twister	Tino
Temperature				
0°C	Pass	Pass	Pass	Pass
25°C	Pass	Pass	Pass	Pass
45°C	Pass	Pass	Pass	Pass
60°C	Pass	Pass	Pass	Pass

### Fanless solution with 2.5" HDD

Chassis	Light	Neo	Twister	Tino
Temperature				
0°C	Pass	Pass	Pass	Pass
25°C	Pass	Pass	Pass	Pass
40°C	Pass	Pass	Pass	Pass
45°C	Pass	Pass	Pass	Pass

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