

SI945A Series

Application

Embedded IA / VOD / VCR / DVR / Video Capture server / Security application

Features



Specifications

MODEL	SI945A Series
CPU Type	Intel Core 2 Duo / Core Duo CPU socket M
Front Side Bus	533 / 667 MHz
MB Chipset	Intel 945 GME + ICH7M (82801 GBM)
BIOS	Award BIOS
Graphics	Intel Gen 3.5 Integrated Graphics Engine Dynamic Video Memory Technology (DVMT 3.0) Higher performance MPEG-2 decoding
LVDS	Data format of 18 bits / 36 bits
System Memory	2 x DDR2 SO-DIMM socket (max. 3GB)
IDE	Ultra ATA 100 / 66 / 33, 1 x 40 pin 2.54mm CF Card Type 2 socket for ATA interface
SATA	2 x SATA ports
Audio	Intel HD Audio Specification Rev. 1.0 Compliant Support Line-out / Mic-in / Line-in
LAN	1 x Realtek RLT8111C 10 / 100 / 1000 Mbps. Support PCIe
IO Function	1 x RS232 + 1 x RS232 / 422 / 485 PS/2 keyboard & mouse
USB	8 x USB 2.0 (2 external + 6 internal)
Video-in	1/4 Conexant CX25878 chip for 4~16 ports video-in
TV-Out	Support all NTSC & PAL formats. Support HDTV & S-video
Touch Screen (option)	USB interface Touch screen controller Support 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
Expansion Interface	1 x Mini PCI socket 1 x PCI gold finger (with RS007/RS009 PCI Riser Card upgrade to 2 x PCI card) 1 x PCIe mini card for USB interface (option)
Power	On board DC +12V ± 5% convert to +3.3V / +5V / +12V for system
Dimension	200 x150 mm
Operation Temperature	0 ~ 60 °C
Operation Humidity	5 ~ 95% @ 60 °C, non-condensing

Testing environment

Model name : **SI945A-4UXX**
 CPU : Intel 440 Celeron M 1.86 GHz / Intel T7400 Core 2 Duo 2.16 GHz
 Chipset : Intel 945 GME & ICH7M
 OS : WIN XP
 Testing Program : 3D Mark 2001 SE

Fanless solution with CF card			
Chassis	NEO	TINO	TWISTER
Temperature			
0°C~45°C	Pass	Pass	Pass
50°C	—	Pass	Pass
55°C	—	—	Pass

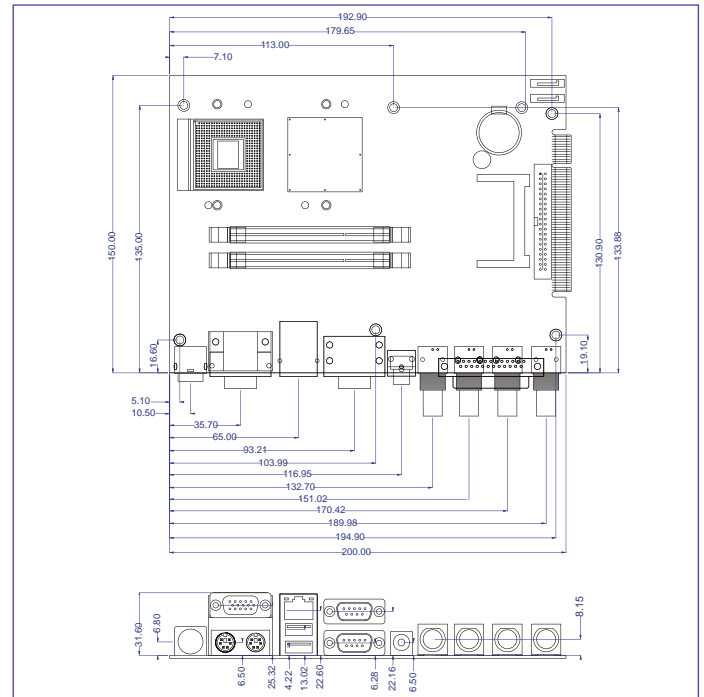
Fanless solution with 2.5" HDD			
Chassis	NEO	TINO	TWISTER
Temperature			
0°C~45°C	Pass	Pass	Pass
50°C	—	—	Pass

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

Ordering Information

- SI945A-4SXX 1 chip (Conexant CX25878) with 4 video-in channels
- SI945A-4UXX 4 chips (Conexant CX25878) with 4 video-in channels
- SI945A-4HXX 4 chips (Conexant CX25878) with 16 video-in channels

Dimension



Back Panel

