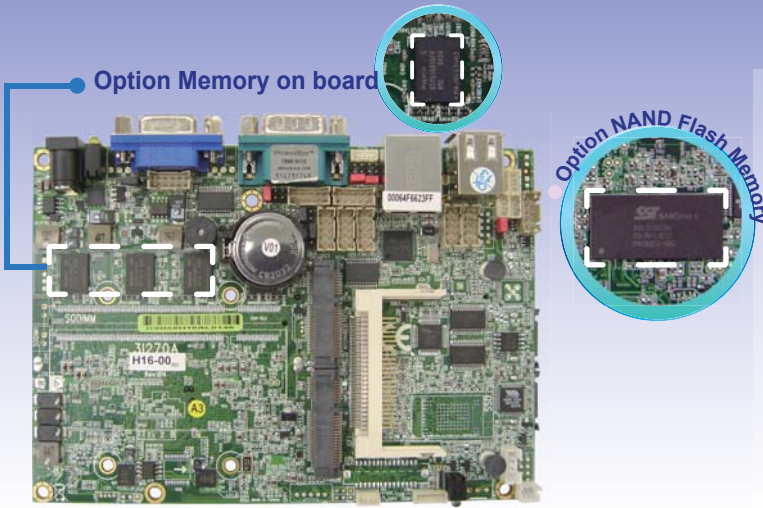


Car PC  
Networking  
POS / Automation  
DVR  
Digital Signage / Thin Client  
Embedded System  
Panel PC



## 31270A Series

### Application

Embedded Car PC / Automatin Control / Thin Client / Digital Signage application

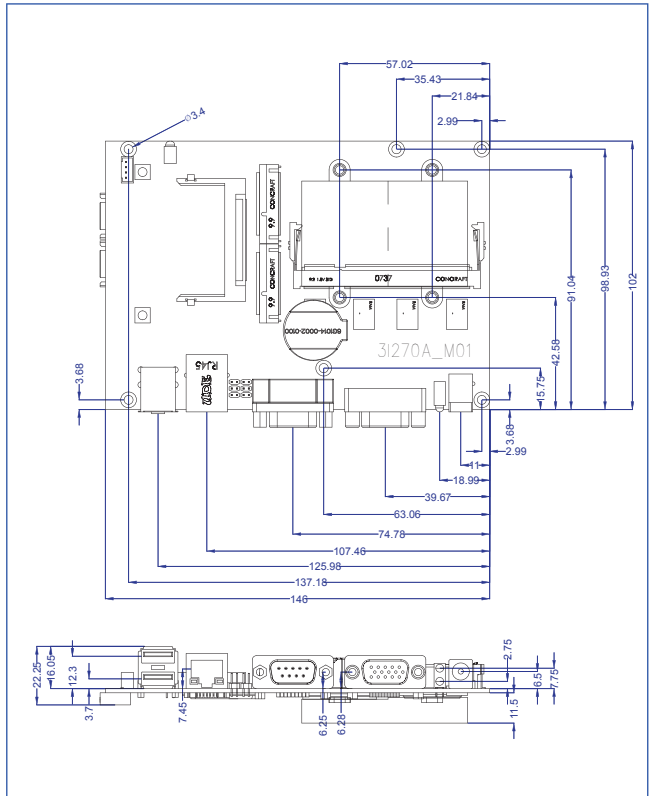
### Features

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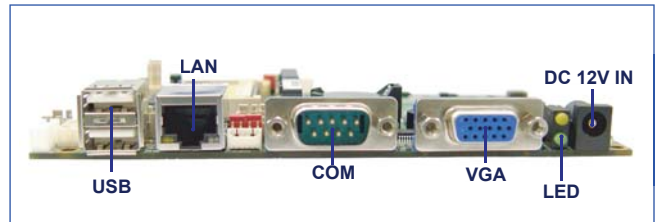
### Specifications

MODEL	31270A Series
CPU Type	Intel Atom N270 1.6 GHz processor
Front Side Bus	533 MHz
MB Chipset	Intel 945 GSE + ICH7M ( 82801 GBM )
BIOS	Award BIOS
Graphics	Integrated with Intel 945 GSE Dynamic Video Memory Technology ( DVMT 3.0 )
System Memory	On board DDR2 SDRAM 1 GB 1 x DDR2 SO-DIMM socket (max. 2GB) (option)
NAND Flash Memory	CF Card Type 2 socket for ATA interface On board SSD 2 / 4 / 8 GBytes ( option )
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 or Intel 82574L 10/100/1000 Mbps.
IO Function	5 x RS232 or RS485 ( option ) + 1 RS422 / 485 or RS232 ( option ) Support PS/2 Keyboard & mouse
USB	8 x USB 2.0 ( 2 external + 6 internal )
DIO & WDT	Hardware digital Input & Output, 8 x DI / 8 x DO Hardware Watch Dog Timer, 0~255 sec programmable
Audio Amplifier (option)	Two channels Audio Amplifier 6W/CH Class-D operation into an 8-Ω Load from a 12-V Supply
Expansion Interface	1 x Mini PCI socket 2 x PCIe mini card for PCIe & USB interface
Power	On board DC +12V ± 5% convert to +3.3V / +5V / +12V for system
Dimension	145 x 102 mm ( 3.5 inch )
Operation Temperature	0 ~ 60 °C
Operation Humidity	5 ~ 95% @ 60 °C, non-condensing

### Dimension



### Back Panel



### Ordering Information

- . 31270A-H16-00 Realtek GbE, 1G on board memory
- . 31270A-000-00 Realtek GbE, SO-DIMM socket

### Testing environment

Model name : **31270A-H16-00**  
 CPU : Intel Atom N270 1.6 GHz  
 Chipset : Intel 945 GSE & ICH7M  
 OS : WIN XP  
 Testing Program : 3D Mark 2001

### Fanless solution with CF card

Chassis Temperature	UNO	BRIK	BLOK	TWITTER	TWITTER-IO	LEO
0°C~50°C	Pass	Pass	Pass	Pass	Pass	Pass
55°C	—	Pass	—	Pass	Pass	Pass
60°C	—	Pass	—	Pass	Pass	Pass

### Fanless solution with 2.5" HDD

Chassis Temperature	UNO	BRIK	BLOK	TWITTER	TWITTER-IO	LEO
0°C~45°C	Pass	Pass	Pass	Pass	Pass	Pass
50°C	—	Pass	—	Pass	Pass	Pass

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