

Car PC

Networking

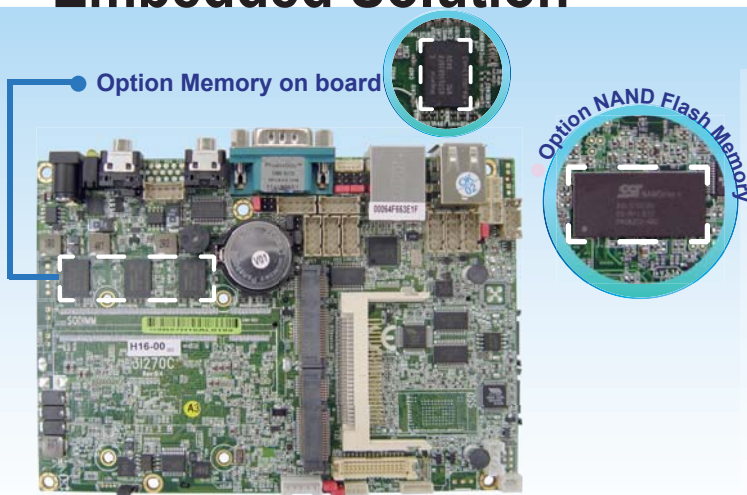
POS / Automation

DVR

Digital Signage / Thin Client

Embedded System

Panel PC



31270C Series

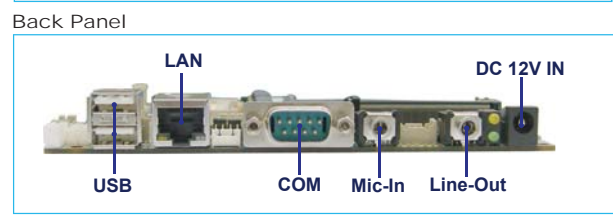
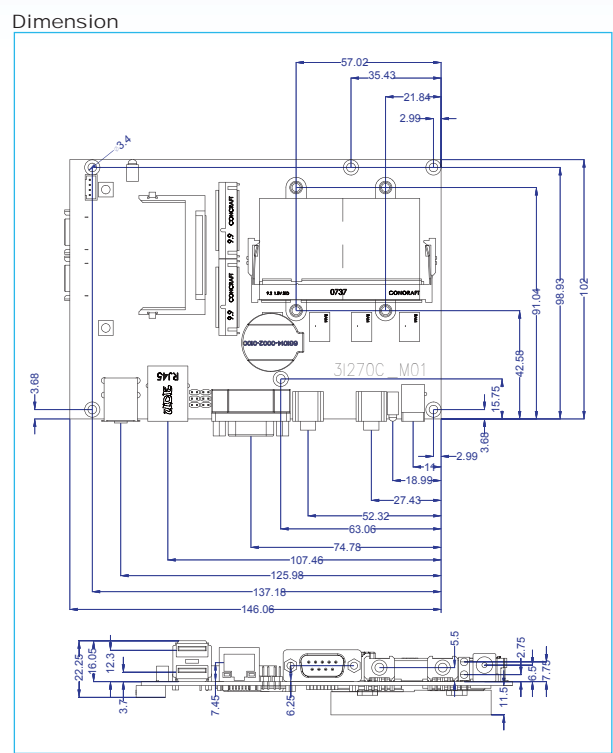
Application
Embedded Car PC / POS / ATM / Kiosk / Panel PC application

Features

- 3.5"
- Intel Atom
- HD Audio
- 6 COM
- 2 SATA
- NAND flash memory
- 6W stereo audio amplifier

Specifications	
MODEL	31270C 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 (DVM T 3.0)
LVDS	LVDS1: 18 bits / LVDS1: 24/48 bits (option) 18 bits & 24/48 bits share the same LVDS connector, there's only one possibility: 18 bits or 24/48 bits
System Memory	On board DDR2 SDRAM 1GB 1 x DDR 2 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.
USB	7 x USB 2.0 (2 external + 5 internal)
IO Function	5 x RS232 or RS485 (option) + 1 x RS422 / 485 or RS232 (option) Support PS/2 Keyboard & mouse
Audio Amplifier (option)	Two channels Audio Amplifier 6W/CH Class-D operation into an 8-Ω Load from a 12-V Supply
Touch Screen	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. Resolution : 2048 x 2048
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 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

Ordering Information
 . 31270C-H16-00 1 Realtek GbE, 1 GB DDRII SDRAM on board
 LVDS, Touch Screen



Testing environment
 Model name : **31270C-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	8.4"~17" Slim Panel PC	7" Panel PC	
Temperature			
0°C	Pass	Pass	
40°C	Pass	Pass	
50°C	Pass	Pass	
60°C	—	Pass	

Fanless solution with 2.5" HDD			
Chassis	8.4"~17" Slim Panel PC	7" Panel PC	
Temperature			
0°C	Pass	Pass	
40°C	Pass	Pass	
50°C	Pass	Pass	

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