



Features

- Fanless Industry Embedded platform
- Intel® 4-core i7 or 2-core i5 / i3 high performance Processor
- Intel® QM67 mobile chipset
- DDR-3 1066/1333 MHz, SO-DIMM, up to 16 GB w/o ECC
- Supports DVI / VGA / LVDS dual independent display
- Supports 2 Giga LAN , 5 COM , 6 USB , DVI-D + VGA , DVD+RW
- Internal and removable Araid M300 SATA RAID 0/1 , SNMP optional
- Support Line-in & Line-out audio
- 1 x16 PCI-E expansion slot
- AC or optional DC power input

Specification

Fanless Platform

- Low power, low operating temperature
- 4 / 2 core Fanless Aluminum Alloy Embedded System

Processor

- Supports Intel® Core i7 / i5 / i3 high performance processor
 - i7-2710QE 2.1 Ghz 6MB Cache , 4-core 8 thread processor
 - i5-2510QE 2.5 Ghz 3MB Cache , 2-core 4 thread processor
 - i3-2330E 2.2 Ghz 3MB Cache 2-core 4 thread processor
- 64 bit, HT, Turbo Boost, AES, AVX, vPro, VT, AMT technology
- Built-in media grade high performance 2D , 3D Graphic engine

Express Chipset

- Intel® QM67 South Bridge Chipset

Intel Active Management Technology (AMT)

- Supports iAMT 7.0
- Remote troubleshooting and recovery

Memory

- 2 SO-DIMM Socket, Up to 16 GB , 1066/1333 MHz DDR 3 Memory
- Supports 1Gb , 2Gb and 4Gb DDR-3 DRAM technologies with x8 and x16 devices unbuffered, w/o ECC

BIOS

- AMI BIOS
- Support Console Redirection

Power management

- S1, S3, S4 suspend mode
- Wake up event from USB , Modem Ring , RTC Alarm and LAN
- Power On After Power failure

RAID & Storage

- Provide Araid M300 2 external 2.5" SATA Hardware RAID 0/1
- Hot Swappable, Auto Rebuild, LCM display, SNMP optional support
- also provide 1 internal 2.5" SATA Drive bay & DVD+RW
- Support eSATA for external SATA device , Compact Flash socket

Graphic

- Support AVC/ H.264 , VC1/ WMV9 , MPEG2 HW engine
- H/W engine improve 3D performance
- DirectX video acceleration (DXVA) engine
- Support high resolution dual independent display
 - DVI + VGA Dual independent display
 - DVI + LVDS Dual independent display (optional)
 - VGA + LVDS Dual independent display (optional)

Expansion

- 1 x16 PCI-E expansion slot , 1 optional Mini-PCI-E slot
- Max. add-on card dimension : 180 (L) x 106.68(H) mm

Ethernet

- 2 100/1000 Mbps LAN interface with Wake-On-LAN
- Optional support 802.11 b/g/n wireless Lan

Watchdog timer

- Programmable WDT from 1 to 255 seconds/minutes

Hardware Monitor

- Monitors Voltage, Temperature

Audio

- ALC662-GR Codec supports Speaker-out, Mic-in , Line-in

Front panel Extend I/O

- 1 eSATA , 2 USB , 2 LED for power / HDD status , Power and Reset button

Rear panel Extend I/O

- DC or optional AC power input connector
- 2 DB-9 RS-232 /422/485 , 3 DB-9 RS-232 (all optional DC output)
- 4 USB, 2 x 100/1000 Mbit LAN connector , 1 DVI+DB-15 VGA connector
- Micro-phone-in / Line-in , 1 Line-out
- PS/2 Keyboard & PS/2 Mouse connector
- 1 optional DB-44 dual channel 24 bit LVDS

Power Supply

- AC 90 ~ 264V 47/63 Hz power input, provide Power core lock protection
- Or optional DC 12V / 8.5A 102w power input

Power ON/OFF mode

- AT/ATX Power ON/OFF mode

Environment

- Operation temperature w/ automotive HDD and SSD
 - i7 CPU: - 30°C~ 55°C , i5 / i3 / B810 CPU: - 30°C~ 60°C
- Storage temperature: - 40°C ~ 80°C
- Relative humidity: 10% ~ 90% (Non-condensing)

Mechanical

- Dimension W x H x D : 330 x 167 x 220 mm (12.99" x 6.57" x 8.66")
- Mounting : Desk / Wall mount , optional support Vertical
- Construction : Aluminum Cover , SECC Steel housing
- Weight (Net / Gross) : 8.3KG (18.26lb) / 10.3KG (22.66lb)

Certification

- CE / FCC Class A

OS supports

- Windows XP Professional / Embedded, Windows 7, Linux

Ordering Guide

Ordering NO.	CPU	Mmemory	Display	LAN / USB / COM	HDD / eSATA	Audio / DVD	PCI-E slot / Power input
Redwood 5311-748AR	i7-2710QE 2.1Ghz	8GB	DVI / VGA	2 / 6 / 5	2 ext. 1 int. / 1	Avail / NA	1 x16 PCI-E / AC power input
Redwood 5311-524AR	i5-2510E 2.5Ghz	4 GB	DVI / VGA	2 / 6 / 5	2 ext. 1 int. / 1	Avail / NA	1 x16 PCI-E / AC power input
Redwood 5311-748ARV	i7-2710QE 2.1Ghz	8GB	DVI / VGA	2 / 6 / 5	2 ext. 1 int. / 1	Avail / Avail	1 x16 PCI-E / AC power input

Note: Above model working 100% performance at full loading under the surrounding temperature 25 °C , high operation temperature by special request.

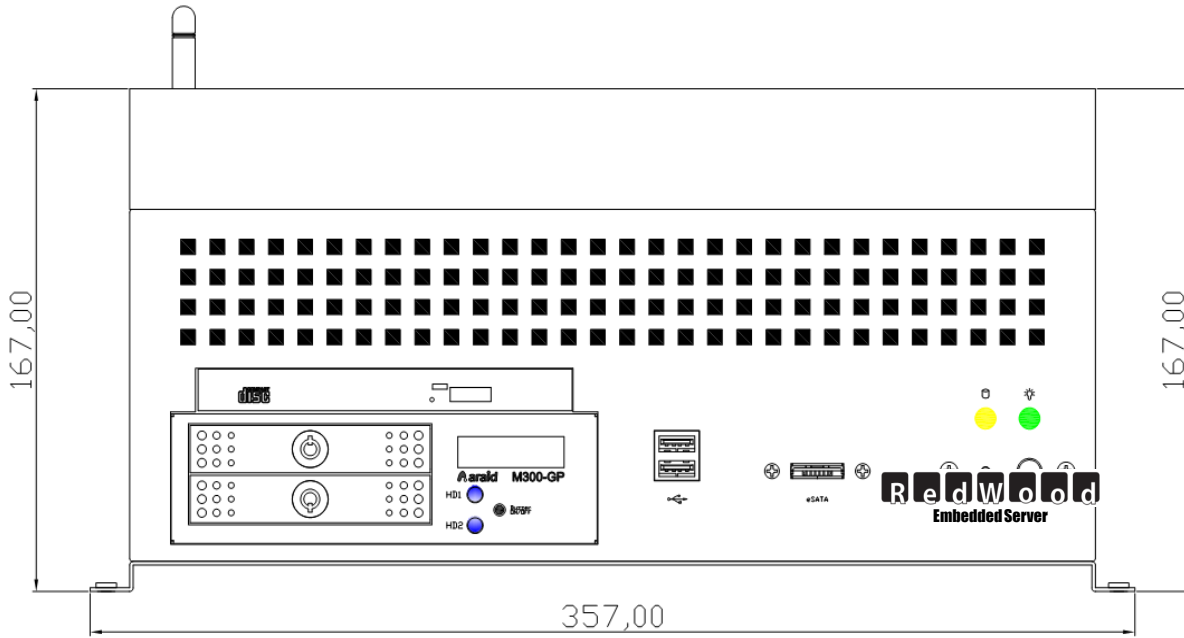
- Optional order :

- HDD , SODIMM Memory , 100w DC power adapter , Wireless Lan

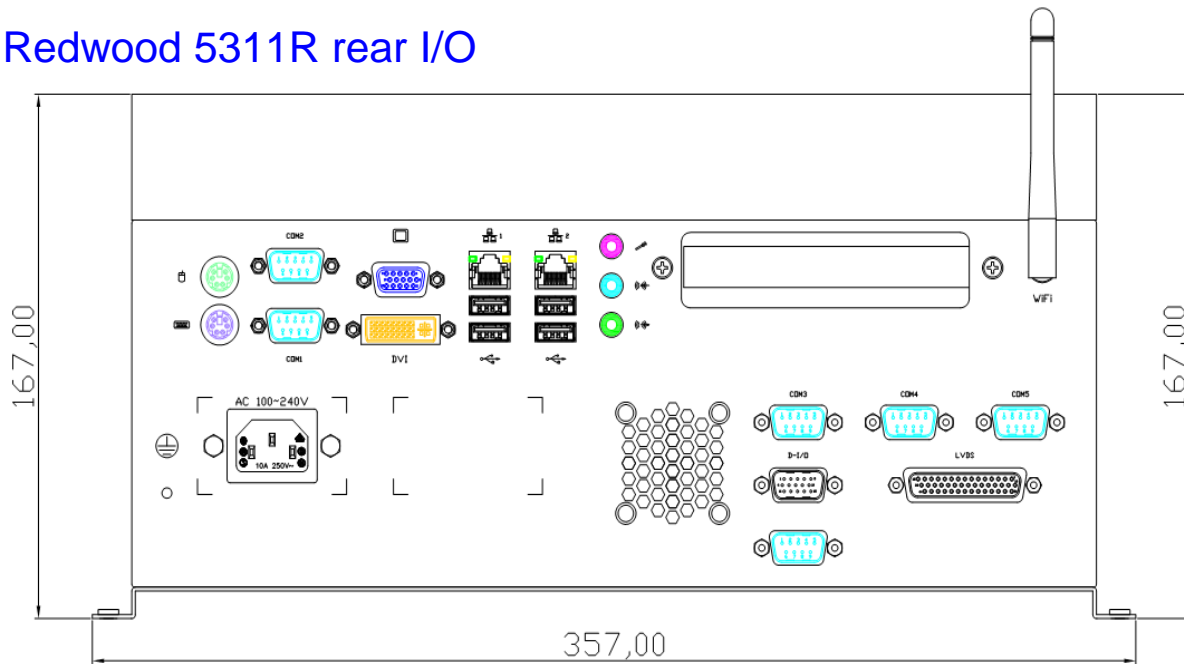
Specification may change without notice

Rev 0.1

Redwood 5311R series front I/O



Redwood 5311R rear I/O



Redwood 5311R Dimensions

