

# Intelligent transportation low power consumption fanless machine

RA-G1808

## Product specification



Proposed By: Frank

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## Changelist

Version	Date	Content of change	Author
V1.0	2017-10-18	First Release	Frank

## Overview

RA-G1808 is a intelligent transportation low power consumption fanless machine designed by Realbom. This machine uses Intel Baytrail J1900 CPU, 4 cores 2.0GHz, up to 2.42GHz. Supporting 1\*204 pin So-DIMM memory slot, DDR3L 1333MHz, maximum support for 8GB. The whole machine supports 4 independent displays, 3\*VGA and 1 \*LVDS. It can maximum support 14\*COM ports, 6\*USB interfaces, 2\*RJ45 Gigabit lan ports, and 36 GPIO. Storage support 1 CF card, one 2.5 inch hard disk position. It can be widely used in the intelligent transportation industry, such as all kinds of rail transportation, road traffic and so on.

## Features

1. Design of heat dissipation fan with all aluminum profiles for the whole machine
2. Use Intel Baytrail J1900 CPU
3. Support 4 independent display
4. Support 14\*COM, 6\*USB, 36 road GPIO

## Specification

No.	Series	Item	Description
1	Platform	CPU	IntelBaytrail J1900 CPU
		Chipset	/
2	Memory	Type	DDR3L1333MHz
		Slot	1* 204pin DIMM
		Capacity	Max 8G
3	Network	Interface	2* RJ45 Ports
		Chip	2*Intel i211
4	Display	Graphics	HD
		VGA	1* VGA, elicited from CPU
		VGA	2* VGA, elicited from SM750
		LVDS	1* LVDS (use DVI connector), elicited from CPU
		mode	4*display, 3*VGA+1*LVDS
5	Storage	SATA	1*2.5"HDD
		CF	1* CF
6	I/O Port	USB	6*USB (5*USB2.0,1* USB3.0)
		COM	14*COM(COM1-COM2, support RS232; COM3-COM14, support RS232/RS422/RS485 Bios control switching)
		LAN	2*1000M RJ45
		PS2	1* PS/2 two in one interface
		Audio	1* Mic in+ Line out

		Button	1* Rocker switch
		LPT	1*DB25 Standard printer
		DIO	1* 36 GPIO PIN[1-18] as GPI in, PIN[19-36] as GPO out
		Display	4 (3*VGA, 1*LVDS) (DVI Connector)
		CF	1X CF card
7	Power Supply	input	1X DC9-24V wide pressure input to the Phoenix terminal
		Output	1X DC12V output 3pin
8	Physical parameters	Size	265mm(Length)X200mm(Width)X100mm(Hight)
		temperature	working temperature: -15-50℃ ; Storage temperature: -40-70℃
		humidity	5%-95%, non-condensing
9	OS	OS	Windows, Linux

## I/O Ports



## Ordering Information

Product name	Description
RA-G1808A	All aluminum chassis, RB-G600A, 10COM, 3VGA, DC12V in
RA-G1808B	All aluminum chassis, RB-G600B, 14COM, 3VGA+LVDS, DC9-24V Wide pressure input