

Intelligent transportation high performance fanless machine

RA-61809

Product specification



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Changelist

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

Overview

RA-G1809 is a high performance fanless machine developed by Realbom. The whole machine uses Intel Skylake-U i5-6200U CPU, dual core 2.3GHz, up to 2.8GHz. Support 1*260pin So-DIMM memory grooves, DDR4 2133MHz, maximum support for 16GB. The whole machine supports 4 road independent displays, 3 road VGA and 1 road LVDS. The maximum support is 14*COM ports, 6*USB interfaces, 2*RJ45 1000M web ports, and 36 road GPIO. The storage supports 1 CFast cards, a 2.5 inch hard disk. It can be widely used in the intelligent transportation industry, such as all kinds of rail transportation, road traffic and so on.

Features

1. Fanless design with all aluminum profiles for the whole machine
2. Use Intel Skylake-U i5-6200U CPU
3. Supports 4 independent displays
4. Supports 14*COM, 6*USB, 36 road GPIO

Specification

No.	Series	Item	Description
1	Platform	CPU	Intel Skylake-U i5-6200U CPU
		Chipset	/
2	Memory	Type	DDR42133MHz
		Slot	1* 260pin DIMM
		Capacity	Max 16G
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"
		CFast	1* CFast card connector
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 road GPIO PIN[1-18] as GPI input, PIN[19-36] as GPO output
		Display	4(3*VGA, 1*LVDS) (DVI connector)
		CFast	1* Cfast card slot
7	Power Supply	Input	1* DC9-24V wide pressure input to the Phoenix terminal
		Output	1* DC12V output 3pin
8	Physical parameters	Size	265mm(Length)X200mm(Width)X100mm(Hight)
		Temperature	Working temperature: -20-60℃ ; Storage temperature: -40-70℃
		Humidity	5%-95%, non-condensing
9	OS	OS	Windows, Linux

I/O Ports



Ordering Information

Product name	Description
RA-G1809A	All aluminum chassis, RB-G601A, 10COM, 3VGA, DC12V input
RA-G1809B	All aluminum chassis, RB-G601B, 14COM, 3VGA+LVDS, DC9-24V Wide pressure input