

PRODUCT SPECIFICATION

Receiving Card HD-RB6



Update History		
Version	Release time	Description
V0.1		First official release.



1. Overview

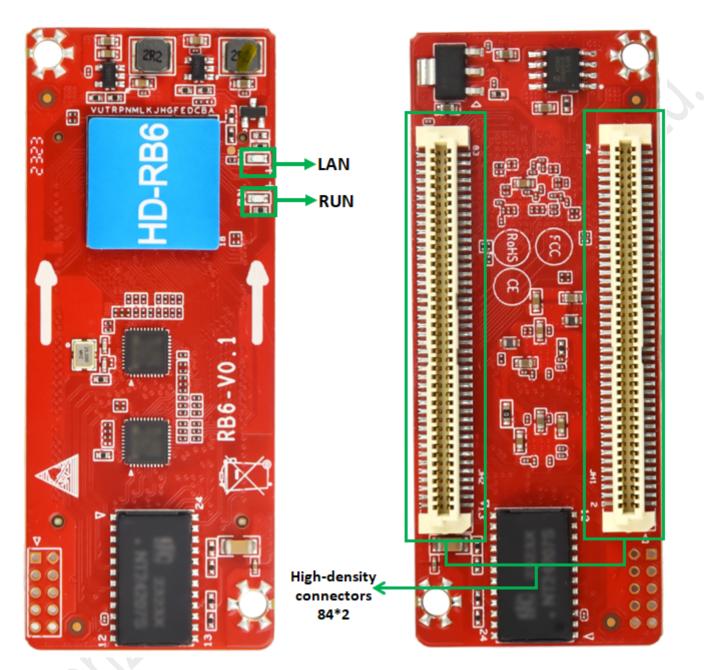
RB6 is an ultra-small size receiving card that supports synchronous control system and asynchronous control system at the same time, can be widely used in ultra-thin cabinets, transparent screens, light bar screens, film screens and other scenarios, single card supports up to 32 groups of RGB parallel data or transparent screen 64 groups of serial data (expandable to 128 groups of serial data), for the light strip film screen can support 96 groups of data.

2. Parameters

Features	Parameters
With sending card	Dual-mode sending box, Asynchronous sending card, Synchronous sending card, Video processor of VP series.
Module type	Compatible with all common IC module, supported most PWM IC module.
Scan mode	Supports any scanning method from static to 1/128 scan
Communication method	Gigabit Ethernet
Control range	Maximum loading capacity: 131,072 pixels (256*512) Recommended loading capacity: 98,304 pixels (256*384)
Multi-card connection	Receiving card can be put in any sequence
Gray scale	256~65536
Smart setting	A few simple steps to complete the smart settings, through the screen layout can be set to go with any alignment of the screen unit board
Test functions	Receiving card integrated screen test function, Test display brightness uniformity and display module flatness.
Communication distance	Super Cat5, Cat6 network cable within 80 meters
Port	84PIN*2
Input voltage	3.8V-5.5V
Power	2.5W



3. Description of Appearance



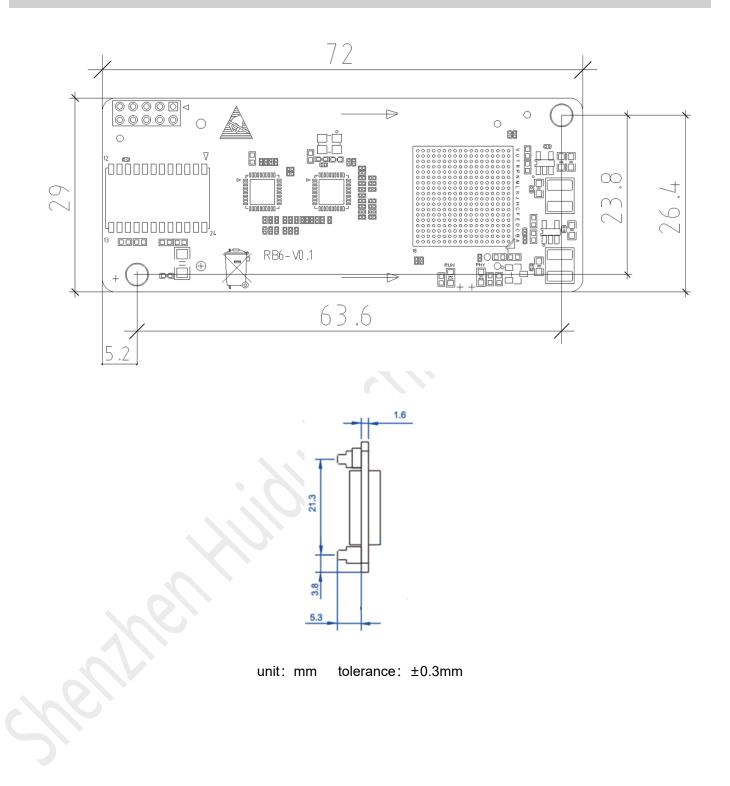
RUN Operation indicator: When the receiving cartoon power works normally, the indicator flashes 1 time/second.

LAN Network indicator: The network connection and sending and receiving data are normal, and the indicator light flashes rapidly.

High-density connector: JH1, JH2 are used to connect with the display adapter board or unit board, and the interface pins are defined below.



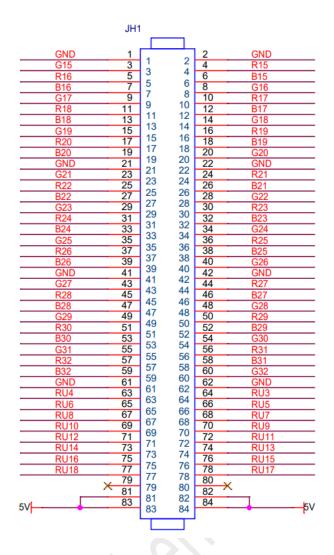
4. Dimensions





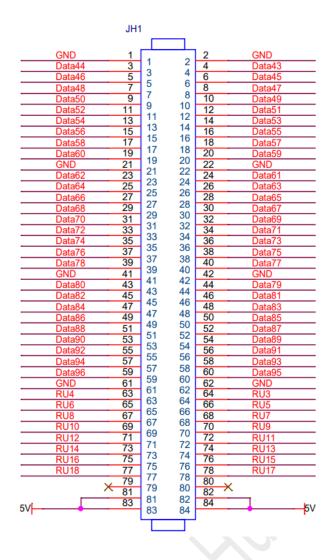
5. Data Interface Definition

32 sets of parallel data patterns



///		JH2	2			111
4						_
	ETH_SHEILD	1	4	2	2	ETH_SHEILD
	PORT1_T0+	3	1 3	2	4	PORT2_T0+
	PORT1_T0-	5			6	PORT2_T0-
	PORT1_T1+	7	5 7	6	8	PORT2_T1+
	PORT1_T1-	9		8	10	PORT2_T1-
	PORT1_T2+	11	9	10 12	12	PORT2_T2+
	PORT1_T2-	13	11		14	PORT2_T2-
	PORT1_T3+	15	13	14	16	PORT2_T3+
	PORT1_T3-	17	15	16	18	PORT2_T3-
	GND	19	17	18	20	GND
	TEST_KEY	21	19	20 22	22	STA_LED-
	GND	23	21		24	GND
	Α	25	23	24	26	CLK1
	В	27	25	26	28	CLK2
	С	29	27	28	30	LAT
	D	31	29	30	32	CTRL
	E	33	31	32	34	OE
	GND	35	33	34	36	GND
	G1	37	35	36	38	R1
	R2	39	37	38	40	B1
	B2	41	39	40	42	G2
	G3	43	41	42	44	R3
	R4	45	43	44	46	B3
	B4	47	45	46	48	G4
	GND	49	47	48	50	GND
	G5	51	49	50	52	R5
	R6	53	51	52	54	B5
	B6	55	53	54	56	G6
	G7	57	55	56	58	R7
	R8	59	57	58	60	B7
	B8	61	59	60	62	G8
	GND	63	61	62	64	GND
	G9	65	63	64	66	R9
	R10	67	65	66	68	B9
	B10	69	67	68	70	G10
	G11	71	69	70	72	R11
	R12	73	71	72	74	B11
	B12	75	73	74	76	G12
	GND	77	75	76	78	GND
	G13	79	77	78	80	R13
	R14	81	79	80	82	B13
	B14	83	81	82	84	G14
			83	84		

96-bit serial data mode (compatible with 64-bit serial data mode)



	JH2					
ETH SHEILD	1			2	ETH SHEILD	
PORT1 T0+	3	1	2	4	PORT2 T0+	
PORT1 T0-	5	3	4	6	PORT2 T0-	
PORT1_T1+	7	5	6	8	PORT2 T1+	
PORT1_T1-	9	7	8	10	PORT2 T1-	
PORT1 T2+	11	9	10	12	PORT2 T2+	
PORT1 T2-	13	11	12	14	PORT2 T2-	
PORT1_T3+	15	13	14	16	PORT2_T3+	
PORT1_T3-	17	15	16	18	PORT2_T3-	
GND	19	17	18	20	GND	
TEST_KEY	21	19	20	22	STA_LED-	
GND	23	21	22	24	GND	
A	25	23	24	26	CLK1	
В	27	25	26	28	CLK2	
С	29	27	28	30	LAT	
D	31	29	30	32	CTRL	
E	33	31	32	34	OE	
GND	35	33 35	34 36	36	GND	
Data2	37			38	Data1	
Data4	39	37	38 40	40	Data3	
Data6	41	39 41	40	42	Data5	
Data8	43	43	42	44	Data7	
Data10	45	45	44	46	Data9	
Data12	47	47	48	48	Data11	
GND	49	49	50	50	GND	
Data14	51	51	52	52	Data13	
Data16	53	53	54	54	Data15	
Data18	55	55	56	56	Data17	
Data20	57	57	58	58	Data19	
Data22	59	59	60	60	Data21	
Data24	61 63	61	62	62 64	Data23 GND	
GND Date 26	65	63	64	66		
Data26 Data28	67	65	66	68	Data25 Data27	
Data20	69	67	68	70	Data29	
Data30	71	69	70	70	Data31	
Data32	73	71	72	74	Data33	
Data36	75	73	74	76	Data35	
GND	77	75	76	78	GND	
Data38	79	77	78	80	Data37	
Data40	81	79	80	82	Data39	
Data42	83	81	82	84	Data41	
		83	84			



6. Technical Parameters

Item	Parameter value
Rated Voltage (V)	DC 3.8V-5.5V
Working Temperature (°C)	-40°C~80°C
Working Environment Humidity (%RH)	0~90%RH
Storage Environment Humidity (%RH)	0~90%RH
Net weight (g)	≈15g

Precautions:

- 1) Ensure the system long-term stable running, please use the standard power supply.
- 2) Please do not operate with electricity
- 3) Due to the production batch and other reasons, there may be a slight error between the photo and the real thing. If in doubt, please confirm with us.