

# Receiving Card VCSG3-V23D-EX Specs

## I. Product Introduction

VCSG3-V23D-EX is a Universal irregular display screen Receiving Card, with following features:

1. The maximum output of the RGB is 21 sets.
2. The maximum pixel that one single card can load is 64K pixels(connect with rectangle), each set of the data could load 8k.
3. Input voltage: 3.5V--6V
4. It support universal driver IC.
5. High Refresh rate, high brightness and high gray grade with common driver IC.
6. Dual backup for the network Cable.
7. It supports to save the settings beforehand.
8. It supports to monitor all the parameters of the receiving card.
9. It supports to monitor the external environment.
10. Intelligent recovery function, swapping the receiving cards without the need of loading all the data again.
11. It support irregular display screen.
12. It conforms to the RoHs and CE-EMC Standards.

## II. The definition of the output port

1. The following are the definition of the two 50P (J1/J2) output ports:

Port JP1,50P definition				Port JP2,50P definition			
Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition
1	GND	2	VCC	1	GND	2	VCC
3	GND	4	VCC	3	GND	4	VCC
5	GND	6	NC	5	GND	6	NC
7	DATA31	8	DATA30	7	DATA63	8	DATA62
9	DATA29	10	DATA28	9	DATA61	10	DATA60
11	DATA27	12	DATA26	11	DATA59	12	DATA58
13	DATA25	14	DATA24	13	DATA57	14	DATA56
15	DATA23	16	DATA22	15	DATA55	16	DATA54
17	DATA21	18	DATA20	17	DATA53	18	DATA52
19	DATA19	20	DATA18	19	DATA51	20	DATA50
21	DATA17	22	DATA16	21	DATA49	22	DATA48
23	DATA15	24	DATA14	23	DATA47	24	DATA46
25	DATA13	26	DATA12	25	DATA45	26	DATA44
27	DATA11	28	DATA10	27	DATA43	28	DATA42
29	DATA9	30	DATA8	29	DATA41	30	DATA40
31	DATA7	32	DATA6	31	DATA39	32	DATA38
33	DATA5	34	DATA4	33	DATA37	34	DATA36
35	DATA3	36	DATA2	35	DATA35	36	DATA34
37	DATA1	38	DATA0	37	DATA33	38	DATA32
39	D	40	C	39	D	40	C
41	B	42	A	41	B	42	A
43	LAT	44	CLK	43	LAT	44	CLK
45	OE	46	GND	45	OE	46	GND
47	VCC	48	GND	47	VCC	48	GND
49	VCC	50	GND	49	VCC	50	GND

Note :

Pin No. 7-38 of the JP1 and JP2 are for data output and it could be user-defined.

## 2. The definition of universal 16 sets data output.

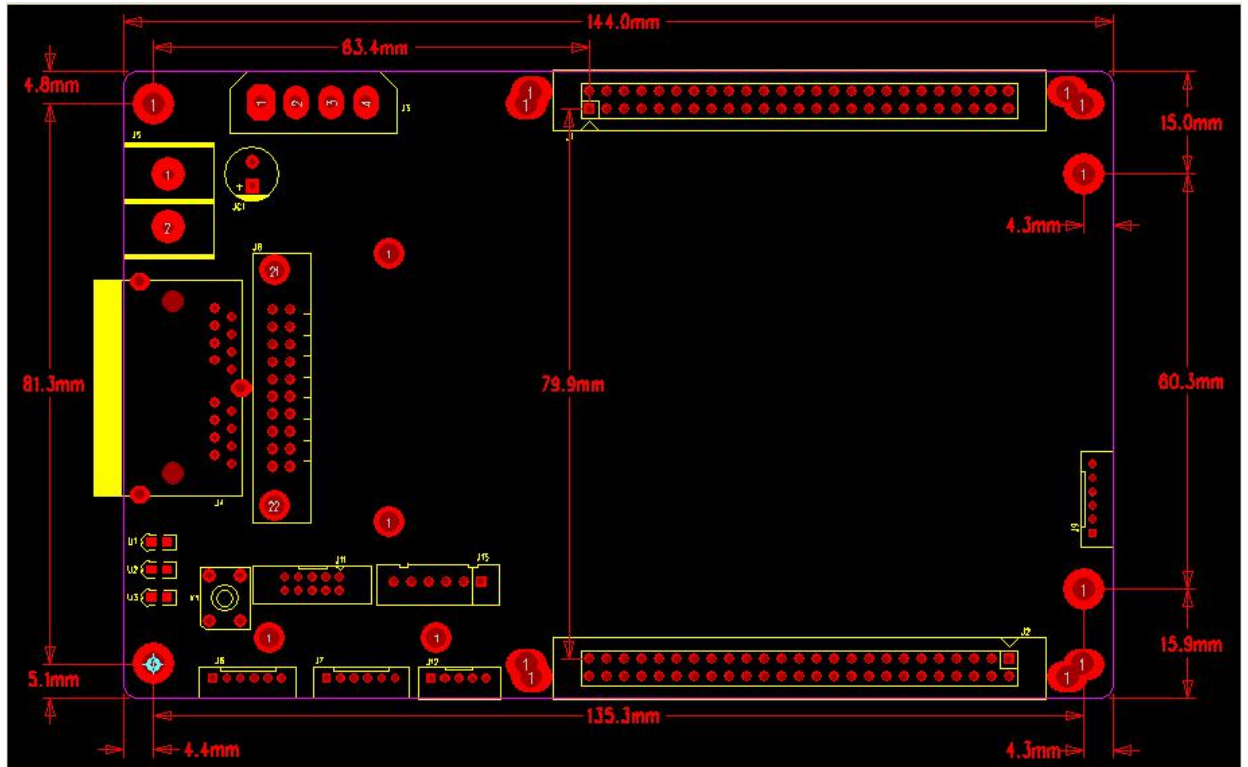
Port JP1,50P definition				Port JP2,50P definition			
Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition
1	GND	2	VCC	1	GND	2	VCC
3	GND	4	VCC	3	GND	4	VCC
5	GND	6	NC	5	GND	6	NC
7	R8R/N	8	B8	7	R16R/N	8	B16
9	G8	10	R8	9	G16	10	R16
11	R7R/N	12	B7	11	R15R/N	12	B15
13	G7	14	R7	13	G15	14	R15
15	R6R/N	16	B6	15	R14R/N	16	B14
17	G6	18	R6	17	G14	18	R14
19	R5R/N	20	B5	19	R13R/N	20	B13
21	G5	22	R5	21	G13	22	R13
23	R4R/N	24	B4	23	R12R/N	24	B12
25	G4	26	R4	25	G12	26	R12
27	R3R/N	28	B3	27	R11R/N	28	B11
29	G3	30	R3	29	G11	30	R11
31	R2R/N	32	B2	31	R10R/N	32	B10
33	G2	34	R2	33	G10	34	R10
35	R1R/N	36	B1	35	R9R/N	36	B9
37	G1	38	R1	37	G9	38	R9
39	D	40	C	39	D	40	C
41	B	42	A	41	B	42	A
43	LAT	44	CLK	43	LAT	44	CLK
45	OE	46	GND	45	OE	46	GND
47	VCC	48	GND	47	VCC	48	GND
49	VCC	50	GND	49	VCC	50	GND

## Notes:

1. While the unit has only three lights on the LED module, the RXR/N stands for the empty Pin.

2. R、G、B are swap-able.

### III. Size and Some Connector Definitions



#### 1. J6 Definition

Pin	1	2	3	4	5	6
Definition	PO_LED+	PO_LED-	P1_LED+	P1_LED-	POW+/KEY+	POW-/KEY-

#### 2. J7 Definition

Pin	1	2	3	4	5	6
Definition	+5V	GND	SDA	GND	SCL	+5V

#### 3. J12 Definition

Pin	1	2	3	4	5
Definition	GND/KEY	KEY+	POW_LED(R)-	+3.3V/LED+	STA_LED(G)-
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#### 4. J13 Definition

Pin	1	2	3	4	5	6
Definition	KEY+	KEY-	POW_LED+	POW_LED-	STA_LED+	STA_LED-

5. J8 Definition

Pin	2	4	6	8	10	12	14	16	18	20
Definition	A0+	B0+	C0+	D0+	NC	NC	A1+	B1+	C1+	D1+
Pin	1	3	5	7	9	11	13	15	17	19
Definition	A0-	B0-	C0-	D0-	NC	NC	A1-	B1-	C1-	D1-

6. J11 Definition

Pin	2	4	6	8	10
Definition	GND	FLS_D0	FLS_DI	NCONFIG	+5V
Pin	1	3	5	7	9
Definition	+5V	FLS_CS	FLS_CLK	NCE	GND

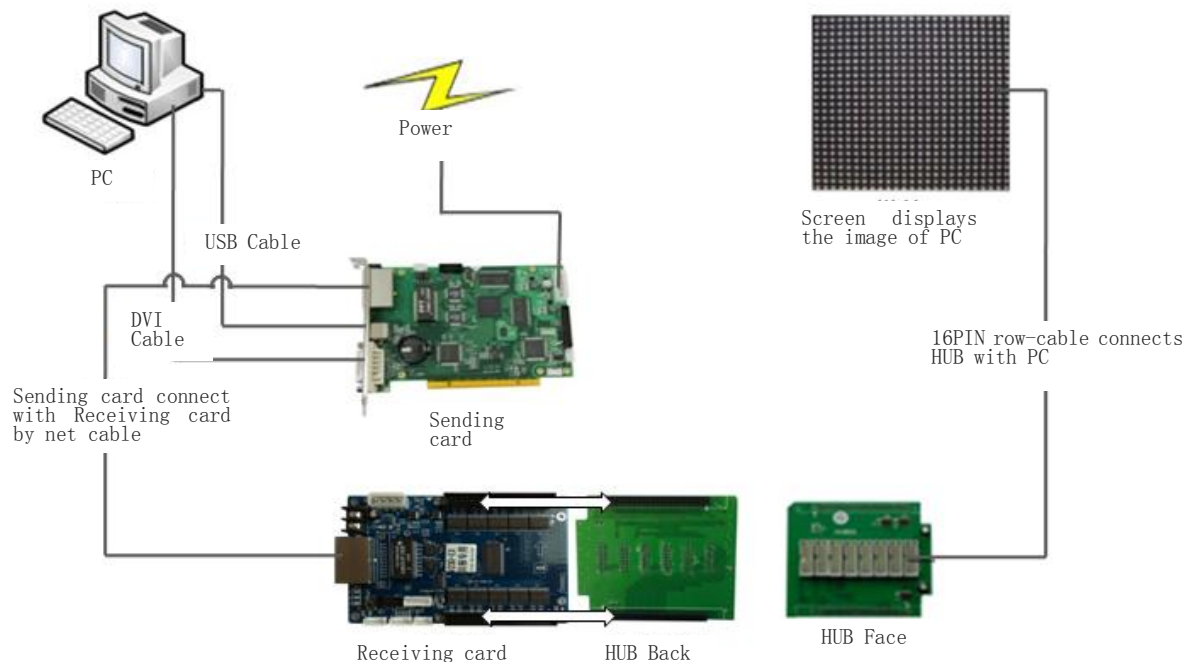
IV. Product Picture



**V. Technical Parameters (Working Parameters)**

Performance Options	Typical Value	Maximum Value
Supported Screen Module	Single Color/ Dual Color/ Full Color/Virtual Pixel	
Supported Receiving Card Quantity( Single Network Port, Cascading)	<100	240
Areas of Pixel Loaded for One Single Card	128*128	96K pixels
RGB Output Group of single receiving card	16-21	21
Lines of One Set of RGB Driver	1/2/4/8/16	1~16
Optical Fiber Transmit Distance	Multi-mode Optical Fiber: 500m; Single-Mode Optical Fiber: 10km	
Some other Performances	10b Video Source, OE Protection, LED Display Self-Detecting	
Working Current	0.6A	1.0A
Protecting Current	3.0A	
Working Temperature	-10°C - 65°C	
Extreme Working Temperature	-20°C - 75°C	
Working Humidity	0%-95%	

**VI. Connection**



## **VII.Packing Content**

1. One Receiving Card, Anti-static Bubble Bag
2. 100PCS as in one Carton

## **VIII.Attentions**

1. Please follow the Instructions for the standard Operation.
2. Professionals are needed to install and test the product, and it has to be anti-static.
3. Keep away from water.