i5 Receiving Card

Features

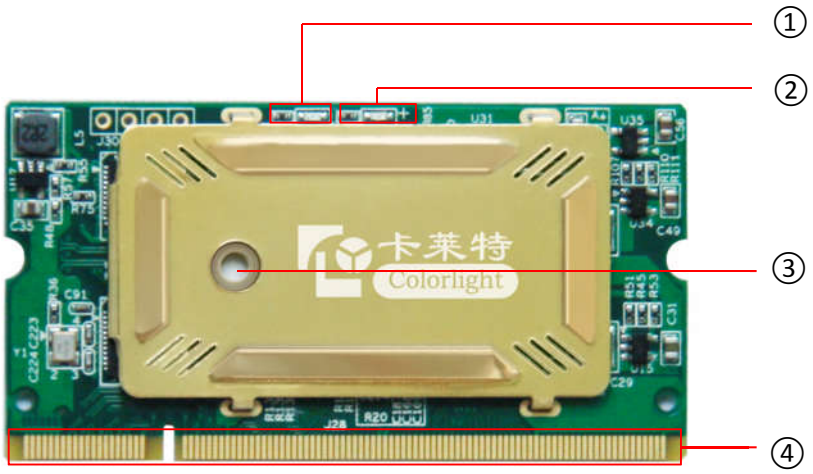
- Tiny size: 68*36mm, DDR2 SODIMM interface, easy for maintenance
- Support 32 groups of RGB signal output
- Loading capacity: 256*256 pixels
- High-precision point-by-point calibration in the brightness and chromaticity
- Support any scan mode from static to 1/32 scan
- Support wide working voltage of DC 3.3V-6V

Specifications

Control system parameters	
Capacity	Full-color: 256*256 pixels
Cascade Control Area of the Largest Region	65536*65536 pixels
Network Port Exchange	Supported, arbitrary use
Gray Level	Maximum 65536 levels
Display module compatibility	
Chip Supports	Supports conventional chips, PWM chips and other mainstream chips
Scan Mode	Two scanning methods to support refresh rate multiplier
Scan Type	Supports static sweep to 1/32 scan

Module Specifications Support	Supports 4096 pixels within any row, any column
Cable Direction	Supports route from left to right, from right to left, from top to bottom, from bottom to top
Data Sets	32 RGB data sets
Data Folded	Supports 1~8 any discount to improve refresh rate
Data Exchange	32 sets of data any exchange
Module Snapshot	Supports any pumping point
Compatible device and interface type	
Communication Distance	UTP cable≤140M CAT6 cable≤170M OPTIC FIBER transmission distance unrestricted
Compatible Transmission Equipment	Gigabit switch, fiber transceiver, optional switches
Size	68*36mm
Input Voltage	DC 3.3V~6V
Rated Current	0.5A
Rated Power	2.5W
Operating Temperature	-25℃~75℃
Weight	9.5g
Pixel level calibration	
Brightness Calibration	Supported
Chromaticity Calibration	Supported

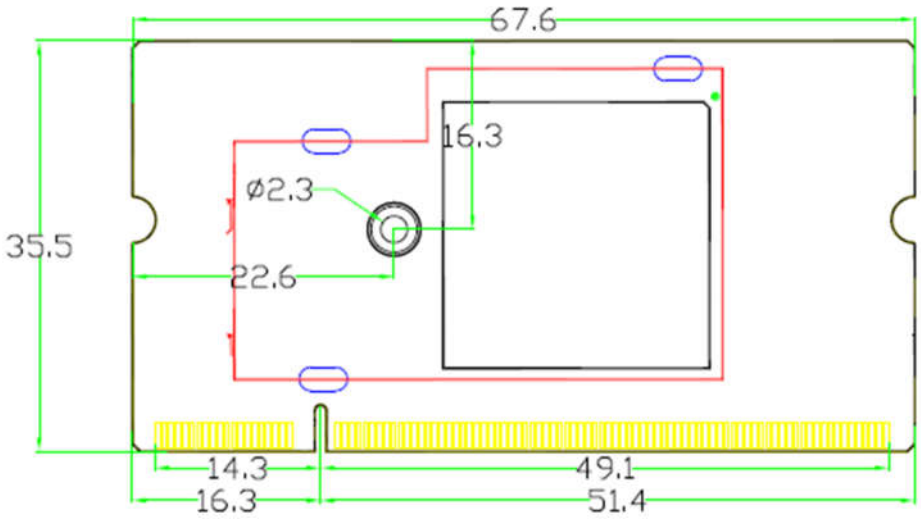
Hardware



1, Interface

S/N	Name	Function	Remarks
1	Signals indicator light	The indicator light flashes rapidly (about 5-10times/second) to show that the data signal transmission is normal	
2	Power indicator light	Red indicator light shows that the power supply is normal	
3	Fixed hole	Used to reinforce the receiving card to improve vibration resistance	
4	DDR interface	Connects with display's HUB board or unit plate	From the diagram above, the left side of the guide plate is first pin (Viewing from the front of card)

2, Figure for size and hole position



3, Definition of pins

Instructions	Definition	Pin NO.		Definition	Instructions
Ground Connection	GND	1	2	D5V	Power supply
	GND	3	4	D5V	
	GND	5	6	D5V	
	GND	7	8	D5V	
	GND	9	10	D5V	
	GND	11	12	D5V	
Do not connect	NC	13	14	NC	Do not connect
Network port 1 signal pin Recommended use isolation transformer	eth1_p1	15	16	eth2_p1	Network port 2 signal pin Recommended use isolation transformer
	eth1_n1	17	18	eth2_n1	
	NC	19	20	NC	
	eth1_n2	21	22	eth2_n2	
	eth1_p2	23	24	eth2_p2	
	NC	25	26	NC	
	eth1_p3	27	28	eth2_p3	
	eth1_n3	29	30	eth2_n3	
	NC	31	32	NC	
	eth1_n4	33	34	eth2_n4	
	eth1_p4	35	36	eth2_p4	
Do not connect	NC	37	38	NC	Do not connect
Ground Connection	GND	39	40	GND	Ground Connection
Indicator light	LED_BTN_LED	41	42	A	Display control： 1. ABCDE for row decoding signal; 2. LED_LAT for signal lock; 3. LED_OE control LED display enable, like a switch, it is GCLK when the led display use PWM chip；
Do not connect	NC	43	44	B	
	NC	45	46	C	
	NC	47	48	D	
Blanking	LED_CTRL	49	50	E	
The first CLK	LED_SCLK	51	52	LED_LAT	
Do not connect	NC	53	54	LED_OE	
Ground Connection	GND	55	56	GND	Ground Connection
RGB output	LED_R1	57	58	LED_R2	RGB output
	LED_G1	59	60	LED_G2	
	LED_B1	61	62	LED_B2	
	LED_R3	63	64	LED_R4	
	LED_G3	65	66	LED_G4	
	LED_B3	67	68	LED_B4	
	LED_R5	69	70	LED_R6	
	LED_G5	71	72	LED_G6	
	LED_B5	73	74	LED_B6	
	LED_R7	75	76	LED_R8	

	LED_G7	77	78	LED_G8	
	LED_B7	79	80	LED_B8	
	LED_R9	81	82	LED_R10	
	LED_G9	83	84	LED_G10	
	LED_B9	85	86	LED_B10	
	LED_R11	87	88	LED_R12	
	LED_G11	89	90	LED_G12	
	LED_B11	91	92	LED_B12	
	LED_R13	93	94	LED_R14	
	LED_G13	95	96	LED_G14	
	LED_B13	97	98	LED_B14	
	LED_R15	99	100	LED_R16	
	LED_G15	101	102	LED_G16	
	LED_B15	103	104	LED_B16	
Ground Connection	GND	105	106	GND	Ground Connection
	GND	107	108	GND	
RGB output	LED_R17	109	110	LED_R18	RGB output
	LED_G17	111	112	LED_G18	
	LED_B17	113	114	LED_B18	
	LED_R19	115	116	LED_R20	
	LED_G19	117	118	LED_G20	
	LED_B19	119	120	LED_B20	
	LED_R21	121	122	LED_R22	
	LED_G21	123	124	LED_G22	
	LED_B21	125	126	LED_B22	
	LED_R23	127	128	LED_R24	
	LED_G23	129	130	LED_G24	
	LED_B23	131	132	LED_B24	
	LED_R25	133	134	LED_R26	
	LED_G25	135	136	LED_G26	
	LED_B25	137	138	LED_B26	
	LED_R27	139	140	LED_R28	
	LED_G27	141	142	LED_G28	
	LED_B27	143	144	LED_B28	
	LED_R29	145	146	LED_R30	
	LED_G29	147	148	LED_G30	
	LED_B29	149	150	LED_B30	
	LED_R31	151	152	LED_R32	
	LED_G31	153	154	LED_G32	
	LED_B31	155	156	LED_B32	
Ground Connection	GND	157	158	GND	Ground Connection

Do not connect	NC	159	160	NC	Do not connect
	NC	161	162	NC	
	NC	163	164	NC	
	NC	165	166	NC	
	NC	167	168	NC	
	NC	169	170	NC	
	NC	171	172	NC	
	NC	173	174	NC	
	NC	175	176	NC	
	NC	177	178	NC	
	NC	179	180	NC	
	NC	181	182	NC	
	NC	183	184	NC	
	NC	185	186	NC	
	NC	187	188	RCV_BK1	
	NC	189	190	RCV_BK2	
	NC	191	192	NC	
	NC	193	194	NC	
	NC	195	196	NC	
	NC	197	198	NC	
Ground Connection	GND	199	200	GND	Ground Connection