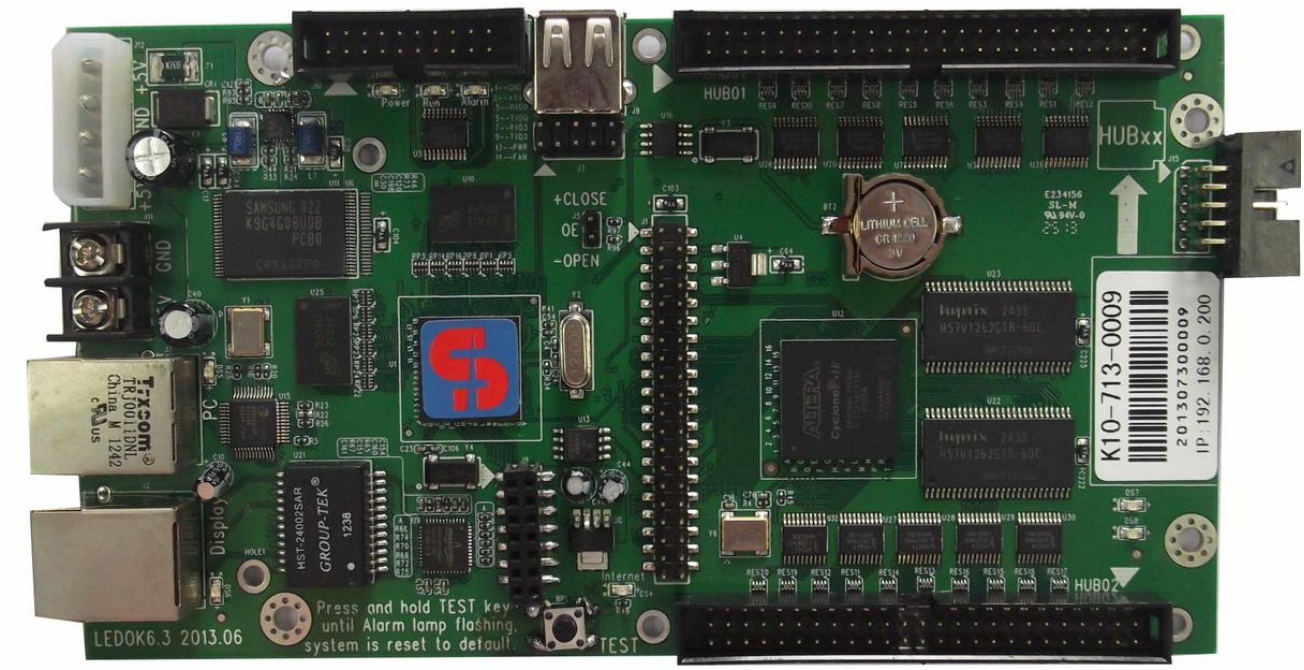
Asynchronous Sending card K10 Instructions

Version1.0 2013.8.15

1. Product picture and functions introduction



Sending card K10 has following traits:

1. 1. Video hardware decoding to make sure smoothly displaying, while M-series and A-series controller supports software decoding.
2. Support 4096 gray level for red, green and blue.
3. One card support maximum pixels 640x480 pixels
4. One sending card supports more than one screen but each screen has the same size, to realize display same content in the same time
5. Supporting read back HCP1 file from led controller
6. Intelligent connection, that is exchange receiving cards in one screen without setup again, the receiving cards will display the content after exchanging.
7. M-series and A-series controller only support 1, 2, 4, 8, 16 scan types, while K-series support random scan types within 1/16 scan, like 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 scan types.
8. Support driver IC with PWM, such as MBI5041
9. One sending card can connect one HUB, will save one pcs of receiving card
10. It has same installation holes with synchronous controller, so it is easy to change controller
11. Totally new design, setup controller through software in PC

2. Output interface definition

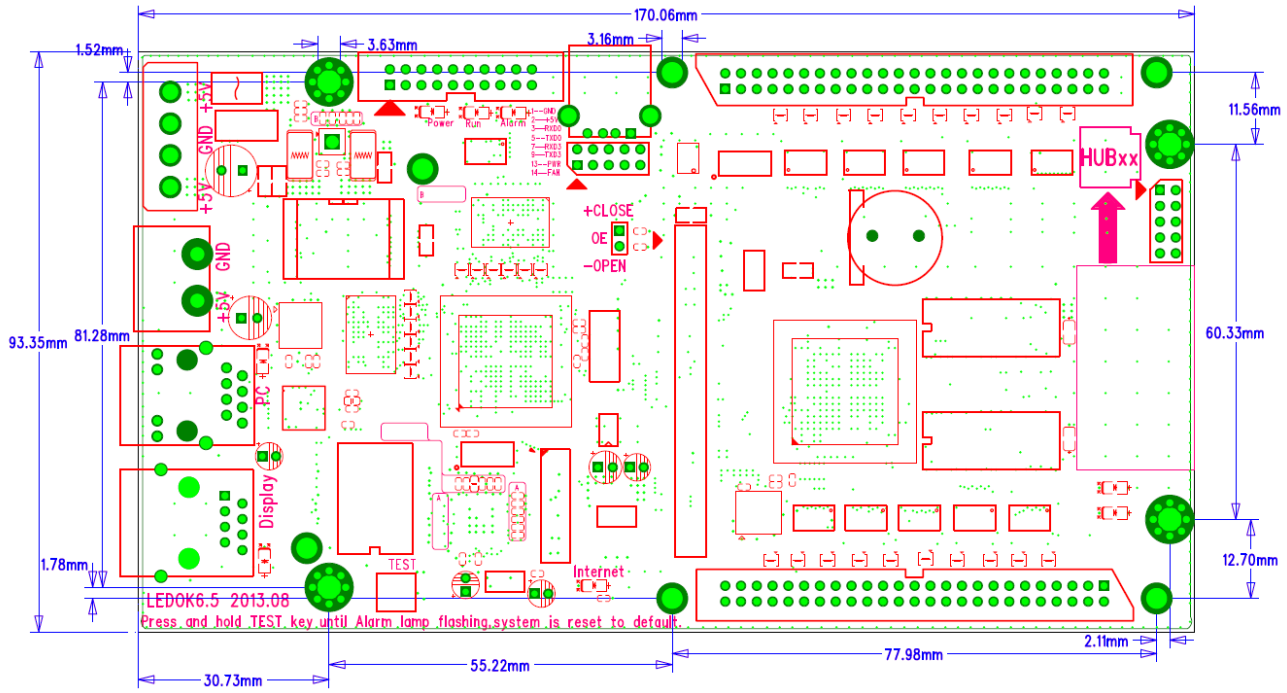
Sending card's output is RGB 50pin interface, has 8 groups of RGB data, following is the definition:

1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49
GND	GND	GND	NC	G8	NC	G7	NC	G6	NC	G5	NC	G4	NC	G3	NC	G2	NC	G1	D	B	LAT	OE	VCC	VCC
VCC	VCC	SR	B8	R8	B7	R7	B6	R6	B5	R5	B4	R4	B3	R3	B2	R2	B1	R1	C	A	CLK	GND	GND	GND
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50

Sensor interface is 20Pin (J10), definition as following:

1	3	5	7	9	11	13	15	17	19
GND	RXD1	TXD1	RXD2	TXD2					VCC
VCC									GND
2	4	6	8	10	12	14	16	18	20

3. Dimension



4. Working conditions

Standard	Minimum	Maximum	Unit
Limiting Voltage	3	6	V
Working voltage	3.3	5.5	V
Working current	0.8	-	A
Working temperature	-20	60	degree
Working humidity	10	90	%