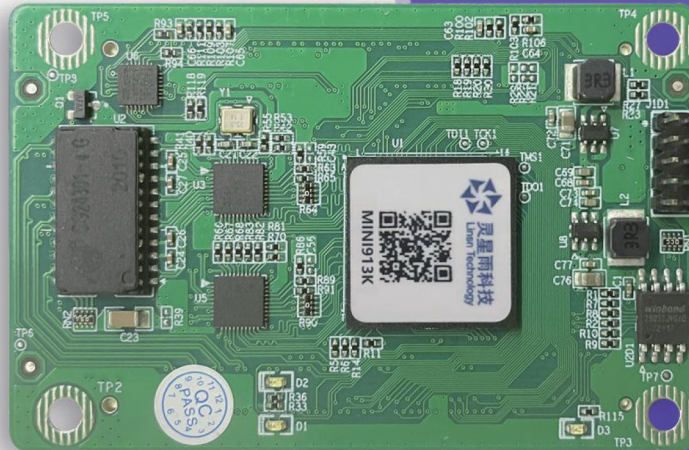




Linsn Technology



MINI913K

Receiver

Specifications

V3.0

Revision History

Document Version	Hardware Version	Revision Date	Note
V3.0	V6	2021/12	New edition

Overview

Mini913K is a high-end and full-featured ultra-small size mini-receiver card. Compared with traditional receiver card, Mini913K uses high-density BTB connector. It is more flexible and it adapts to a variety of electronic circuit structure, achieving a card suitable for all applications, which will considerably reduce the types of purchasing receiver card.

The system, specific circuits and program design of Mini913M, can effectively reduce the electromagnetic radiation and effectively help products easily pass through the EMC test. Specific features are as follows:

Functions and features

1. Single card can support 32- group RGB data output mode;
2. Supports 64-group serial data output mode;
3. Realizes high refresh and high gray level effect;
4. Supports general driver IC and PWM IC;
5. Maximum supports 512X512 pixels;
6. Use 18-bit signal processor, maximum supporting 18-bit (260,000) gray

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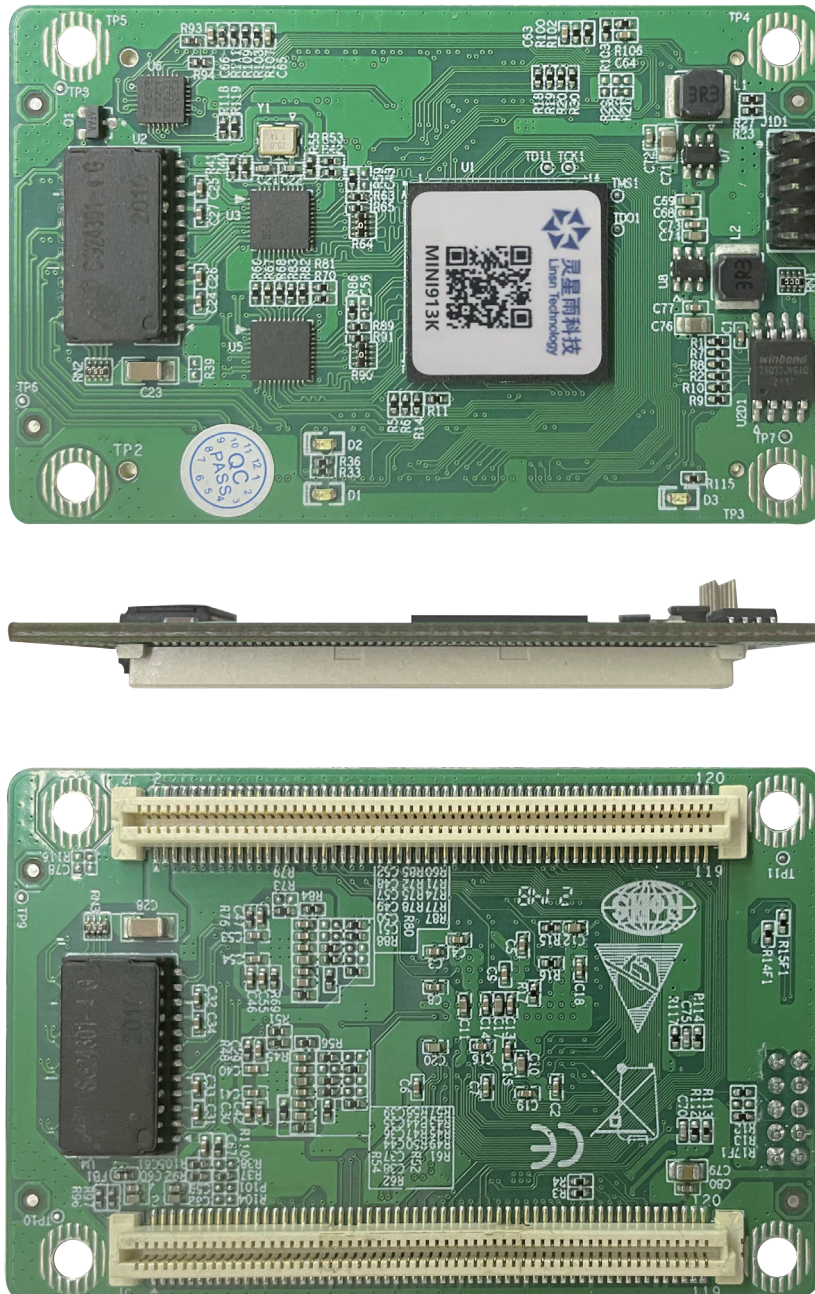
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(each of red, green and blue);

7. Supports single-card color space conversion;
8. Supports configuration file read back;
9. Supports faulty pixel detection(requires dedicated ICs);
10. Supports network cable BER test;
11. Supports flat-cable detection;
12. Supports hot backup with dual network cables, dual power supplier, etc;
13. Allows to save calibration data on flash drive IC on module;
14. Supports temperature and humidity monitor;
15. Supports smoke detection;
16. Supports voltage detection;
17. Supports door status(open/close) and fan speed detection;
18. Supports LCD monitor display function;

Appearance

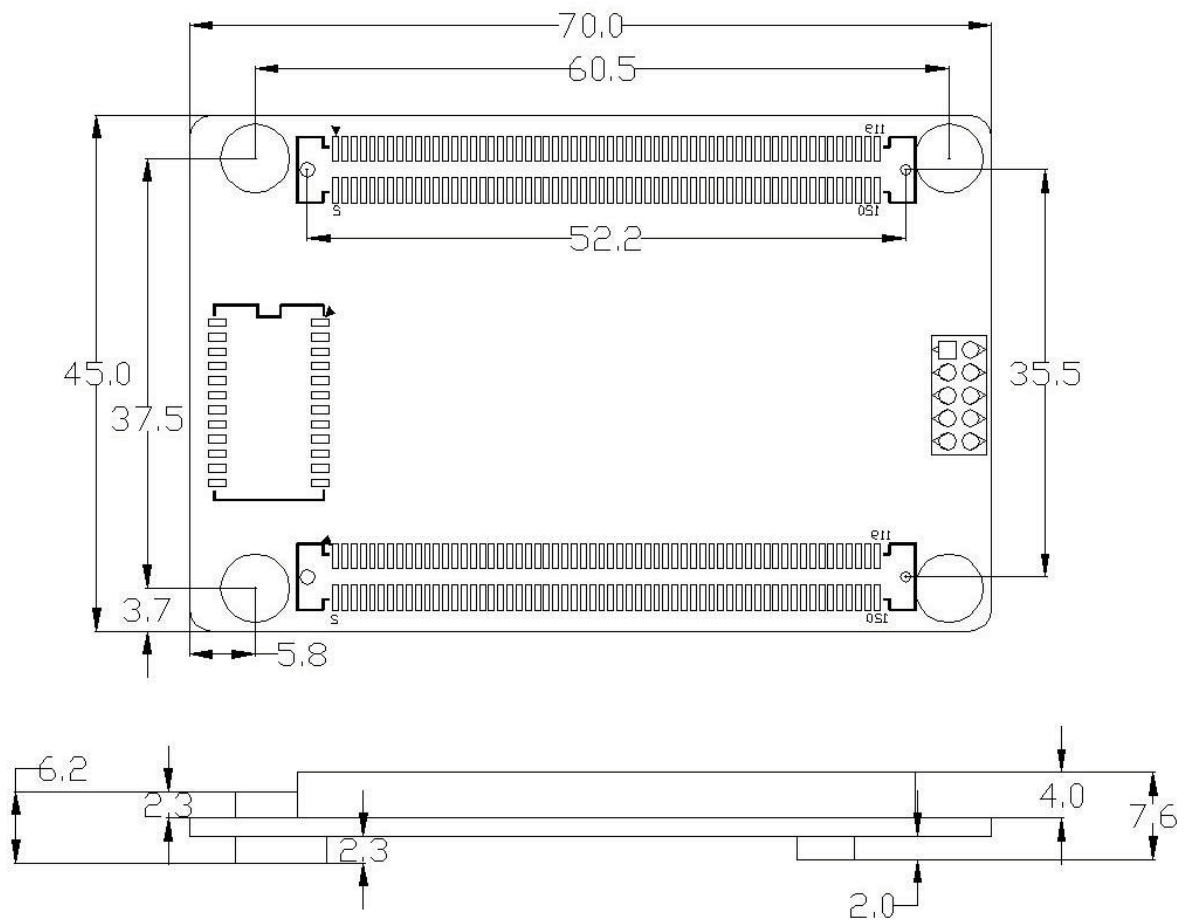


Dimensions

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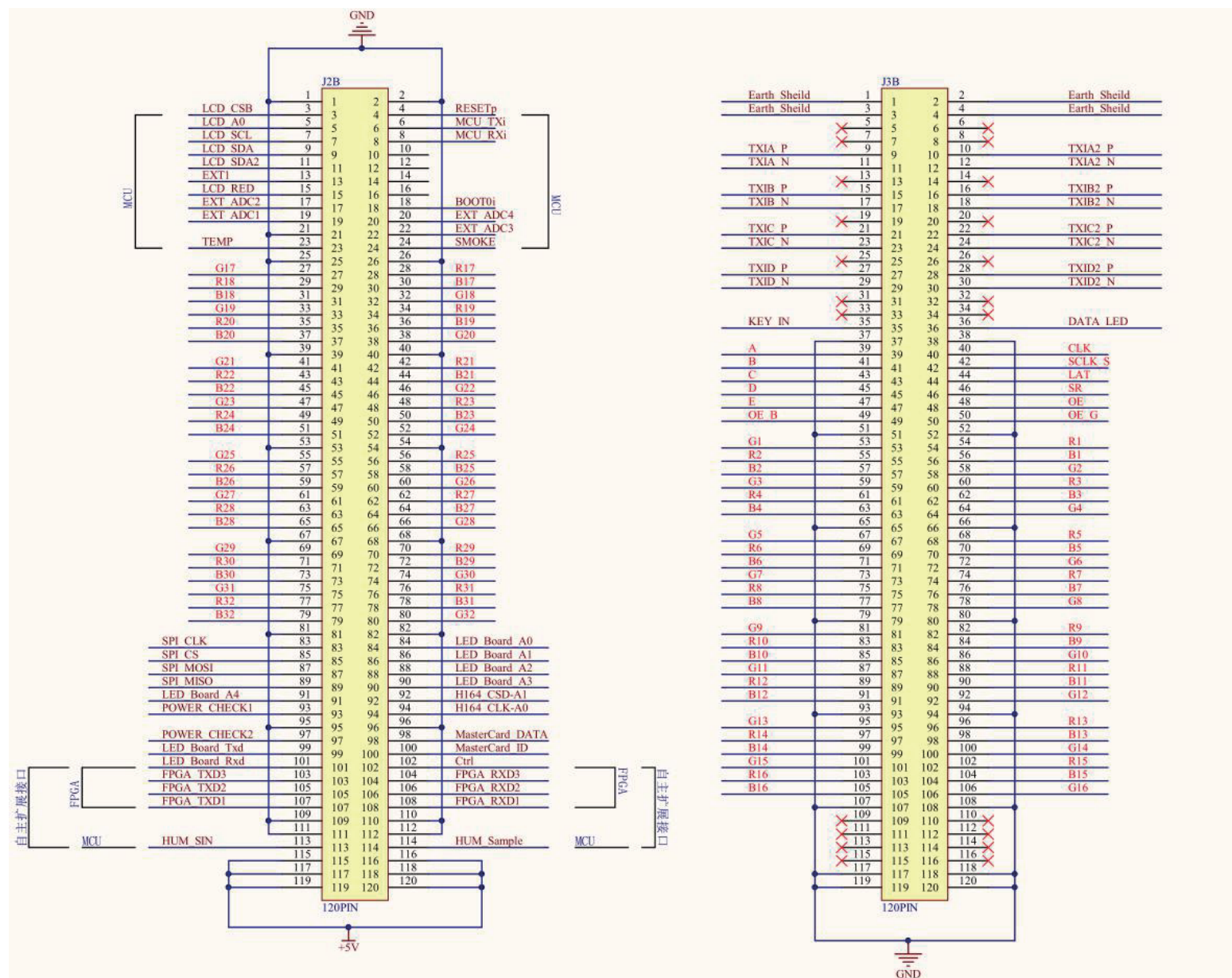
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Definition (Top)



32 group of data sets

Definition of connector1

	GND	1	2	GND	
LCD module	LCD_CSB	3	4	RESETp	
	LCD_A0	5	6	MCU_TXi	
	LCD_SCL	7	8	MCU_RXi	
	LCD_SDA	9	10	NC	
	LCD_SDA2	11	12	NC	
	EXT1	13	14	NC	
	LCD_RED	15	16	NC	
	EXT_ADC2	17	18	BOOT0i	
	EXT_ADC1	19	20	EXT_ADC4	
	GND	21	22	EXT_ADC3	
	TEMP	23	24	SMOKE	
	GND	25	26	GND	
	G17	27	28	R17	
	R18	29	30	B17	
	B18	31	32	G18	
	G19	33	34	R19	
	R20	35	36	B19	
	B20	37	38	G20	
	GND	39	40	GND	
	G21	41	42	R21	
	R22	43	44	B21	
	B22	45	46	G22	
	G23	47	48	R23	
	R24	49	50	B23	
	B24	51	52	G24	
	GND	53	54	GND	
	G25	55	56	R25	
	R26	57	58	B25	
	B26	59	60	G26	
	G27	61	62	R27	
	R28	63	64	B27	
	B28	65	66	G28	

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	GND	67	68	GND	
	G29	69	70	R29	
	R30	71	72	B29	
	B30	73	74	G30	
	G31	75	76	R31	
	R32	77	78	B31	
	B32	79	80	G32	
	GND	81	82	GND	
Intelligent module	SPI_CLK	83	84	LED_Board_A0	Intelligent module
	SPI_CS	85	86	LED_Board_A1	
	SPI_MOSI	87	88	LED_Board_A2	
	SPI_MISO	89	90	LED_Board_A3	
	LED_Board_A4	91	92	H164_CSD_A1	
	POWER_CHECK1	93	94	H164_CLK_A0	
	GND	95	96	GND	
	POWER_CHECK2	97	98	MasterCard_DATA	
	LED_Board_Txd	99	100	MasterCard_ID	
	LED_Board_Rxd	101	102	Ctrl	
	FPGA_TXD3	103	104	FPGA_RXD3	
	FPGA_TXD2	105	106	FPGA_RXD2	
	FPGA_TXD1	107	108	FPGA_RXD1	
	GND	109	110	GND	
	GND	111	112	GND	
	HUM_SIN	113	114	HUM_Sample	
	+5V	115	116	+5V	
	+5V	117	118	+5V	
	+5V	119	120	+5V	

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Definition of connector2

	Earth_Sheild	1	2	Earth_Sheild	
	Earth_Sheild	3	4	Earth_Sheild	
	NC	5	6	NC	
	NC	7	8	NC	
Gigabit port	TXIA_P (Orange)	9	10	TXIA2_P (Orange)	Gigabit port
	TXIA_N (White/Orange)	11	12	TXIA2_N (White/Orange)	
	NC	13	14	NC	
	TXIB_P (Green)	15	16	TXIB2_P (Green)	
	TXIB_N (White/Green)	17	18	TXIB2_N (White/Green)	
	NC	19	20	NC	
	TXIC_P (Blue)	21	22	TXIC2_P (Blue)	
	TXIC_N (White/Blue)	23	24	TXIC2_N (White/Blue)	
	NC	25	26	NC	
	TXID_P (Brown)	27	28	TXID2_P (Brown)	
	TXID_N (White/Brown)	29	30	TXID2_N (White/Brown)	
	NC	31	32	NC	
	NC	33	34	NC	
	KEY_IN	35	36	DATA_LED	
	GND	37	38	GND	
	A	39	40	CLK	
	B	41	42	SCLK_S	
	C	43	44	LAT	
	D	45	46	SR	
	E	47	48	OE	
	OE_B	49	50	OE_G	
	GND	51	52	GND	
	G1	53	54	R1	

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	R2	55	56	B1	
	B2	57	58	G2	
	G3	59	60	R3	
	R4	61	62	B3	
	B4	63	64	G4	
	GND	65	66	GND	
	G5	67	68	R5	
	R6	69	70	B5	
	B6	71	72	G6	
	G7	73	74	R7	
	R8	75	76	B7	
	B8	77	78	G8	
	GND	79	80	GND	
	G9	81	82	R9	
	R10	83	84	B9	
	B10	85	86	G10	
	G11	87	88	R11	
	R12	89	90	B11	
	B12	91	92	G12	
	GND	93	94	GND	
	G13	95	96	R13	
	R14	97	98	B13	
	B14	99	100	G14	
	G15	101	102	R15	
	R16	103	104	B15	
	B16	105	106	G16	
	GND	107	108	GND	
	NC	109	110	NC	
	NC	111	112	NC	
	NC	113	114	NC	
	NC	115	116	NC	
	GND	117	118	GND	
	GND	119	120	GND	

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Specifications

Capacity	512X512 Pixels	
Power	Input Voltage	DC4.5V ~ 5.5V
	Rated power consumption	2.5W
Working	Temperature	-20℃ ~ 70℃
Environmen	Humidity	0% ~ 95%
Physical	Dimensions	70.0 X 45.0 X 7.6 mm
Dimensions	Weight	18.0 g
Packing Info	Packing	Each card packed with small red foam bag, and 100pcs per carton
	Carton Dimension	51.5×27.0×9.0 cm
	Carton Weight	2.4 kg

END

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