

Mini908K

V1.4
Jan 2018

1. Features

Mini908K is a high-end and full-featured ultra-small size mini-receiver card. Compared with traditional receiver, Mini908K 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 Mini908K, can effectively reduce the electromagnetic radiation and effectively help products easily pass through the EMC test. Specific features are as follows:

1. It has all functions of 8th and 9th generation receiver cards and it is completely compatible with them;
2. Supports 24-group parallel RGB data output mode;
3. Supports 64-group serial data output mode;

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

4. Realizes high refresh and high gray level effect;
5. Supports general driver IC and PWM IC;
6. Supports any type of scan within 32 scan, and supports 595 and other serial decoding scan;
7. Supports brightness and color pixel-by-pixel calibration;
8. Maximum supports 512*512 pixels;
9. Supports 12-bit HDMI colors input (requires the 9th generation sending card) ;
10. Supports single-card color space conversion;
11. Supports configuration file read back;
12. Supports pixel fault detection (requires a dedicated chip) ;
13. Supports hot backup with dual receiver cards, dual power supply, etc.;
14. Supports flat-cable detection;
15. Supports hot backup with dual receiver cards, dual power supplier, etc;
16. Allows you to save calibration data on flash drive IC on module;
17. Supports temperature and humidity monitor;
18. Supports smoke detection;

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

- 19. Supports voltage detection;
- 20. Supports door status (open/close) and fan speed detection;
- 21. Supports LCD monitor display function.

2. Appearance



Fig.1 Mini908M

3. Dimensions

Official website: www.linsn.com
Add: Floor 15&16, Jiayahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen
Tel: +86-0755-86183590/ 4008836968

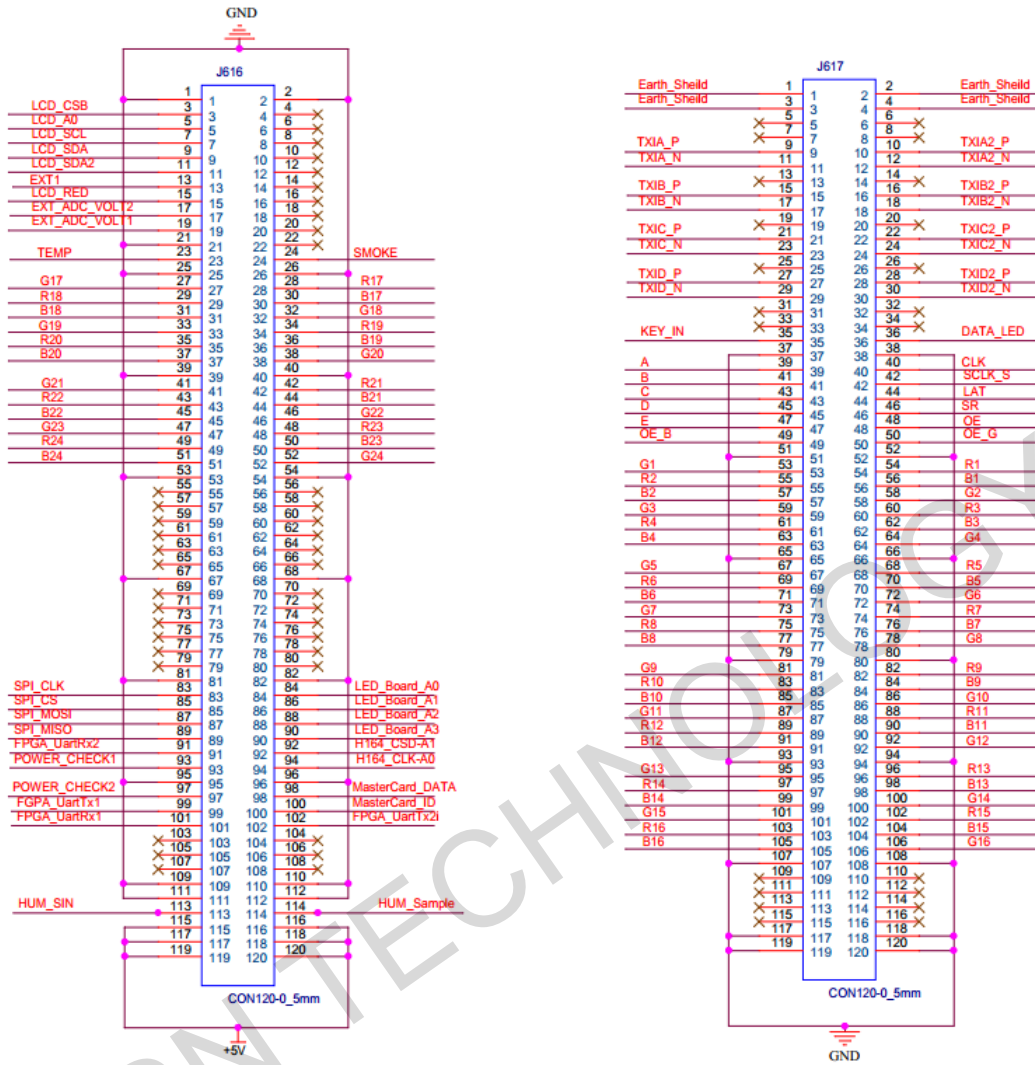


Fig.3 High-density BTB connector

Official website: www.linsn.com
 Add: Floor 15&16, Jiayahao Business Building, No. 10168, Shennan Blvd,
 Nanshan District, Shenzhen
 Tel: +86-0755-86183590/ 4008836968

Definition of the 24-group parallel RGB data output mode

Pinout for connector1

LCD Module	GND	1	2	GND
	LCD_CSB	3	4	NC
	LCD_A0	5	6	NC
	LCD_SCL	7	8	NC
	LCD_SDA	9	10	NC
	LCD_ADA2	11	12	NC
	EXT1	13	14	NC
	LCD_RED	15	16	NC
	EXT_ADC_VOLT2	17	18	NC
	EXT_ADC_VOLT1	19	20	NC
	GND	21	22	NC
	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
	NC	55	56	NC
	NC	57	58	NC
	NC	59	60	NC
	NC	61	62	NC
	NC	63	64	NC

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

	NC	65	66	NC	
	GND	67	68	GND	
	NC	69	70	NC	
	NC	71	72	NC	
	NC	73	74	NC	
	NC	75	76	NC	
	NC	77	78	NC	
	NC	79	80	NC	
	GND	81	82	GND	
Smart module	SPI_CLK	83	84	LED_Board_A0	Smart module
	SPI_CS	85	86	LED_Board_A1	
	SPI_MOSI	87	88	LED_Board_A2	
	SPI_MOSO	89	90	LED_Board_A3	
	FPGA_UartRx2	91	92	H164_CSD_A1	
	POWER_CHECK1	93	94	H164_CSD_A0	
	GND	95	96	GND	
	POWER_CHECK2	97	98	MasterCard_DATA	
	FPGA_UartTx1	99	100	MasterCard_ID	
	FPGA_UartRx1	101	102	FPGA_UartTx2i	
	NC	103	104	NC	
	NC	105	106	NC	
	NC	107	108	NC	
	GND	109	110	GND	
	GND	111	112	GND	
	NC	113	114	NC	
	VCC	115	116	VCC	
	VCC	117	118	VCC	
	VCC	119	120	VCC	

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

Pinout for connector2:

	NC	1	2	NC	
	NC	3	4	NC	
	NC	5	6	NC	
	NC	7	8	NC	
Gigabit Network Port	TXIA_P	9	10	TXIA2_P	Gigabit Network Port
	TXIA_N	11	12	TXIA2_N	
	NC	13	14	NC	
	TXIB_P	15	16	TXIB2_P	
	TXIB_N	17	18	TXIB2_N	
	NC	19	20	NC	
	TXIC_P	21	22	TXIC2_P	
	TXIC_N	23	24	TXIC2_N	
	NC	25	26	NC	
	TXID_P	27	28	TXID2_P	
TXID_N	29	30	TXID2_N		
	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	
	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	

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

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

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

Definition of the 64-group serial data output mode

Pinout for connector1 :

LCD Module	GND	1	2	GND
	LCD_CSB	3	4	NC
	LCD_A0	5	6	NC
	LCD_SCL	7	8	NC
	LCD_SDA	9	10	NC
	LCD_ADA2	11	12	NC
	EXT1	13	14	NC
	LCD_RED	15	16	NC
	EXT_ADC_VOLT2	17	18	NC
	EXT_ADC_VOLT1	19	20	NC
	GND	21	22	NC
	TEMP	23	24	SMOKE
	GND	25	26	GND
	Data50	27	28	Data49
	Data52	29	30	Data51
	Data54	31	32	Data53
	Data56	33	34	Data55
	Data58	35	36	Data57
	Data60	37	38	Data59
	GND	39	40	GND
	Data62	41	42	Data61
	Data64	43	44	Data63
	NC	45	46	NC
	NC	47	48	NC
	NC	49	50	NC
	NC	51	52	NC
	GND	53	54	GND
	NC	55	56	NC
	NC	57	58	NC
	NC	59	60	NC
	NC	61	62	NC
	NC	63	64	NC
NC	65	66	NC	

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

	GND	67	68	GND	
	NC	69	70	NC	
	NC	71	72	NC	
	NC	73	74	NC	
	NC	75	76	NC	
	NC	77	78	NC	
	NC	79	80	NC	
	GND	81	82	GND	
Smart Module	SPI_CLK	83	84	LED_Board_A0	Smart Module
	SPI_CS	85	86	LED_Board_A1	
	SPI_MOSI	87	88	LED_Board_A2	
	SPI_MOSO	89	90	LED_Board_A3	
	FPGA_UartRx2	91	92	H164_CSD_A1	
	POWER_CHECK1	93	94	H164_CSD_A0	
	GND	95	96	GND	
	POWER_CHECK2	97	98	MasterCard_DATA	
	FPGA_UartTx1	99	100	MasterCard_ID	
	FPGA_UartRx1	101	102	FPGA_UartTx2i	
	NC	103	104	NC	
	NC	105	106	NC	
	NC	107	108	NC	
	GND	109	110	GND	
	GND	111	112	GND	
	NC	113	114	NC	
	VCC	115	116	VCC	
	VCC	117	118	VCC	
	VCC	119	120	VCC	

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

Pinout for connector2:

	NC	1	2	NC	
	NC	3	4	NC	
	NC	5	6	NC	
	NC	7	8	NC	
Gigabit Network Port	TXIA_P	9	10	TXIA2_P	Gigabit Network Port
	TXIA_N	11	12	TXIA2_N	
	NC	13	14	NC	
	TXIB_P	15	16	TXIB2_P	
	TXIB_N	17	18	TXIB2_N	
	NC	19	20	NC	
	TXIC_P	21	22	TXIC2_P	
	TXIC_N	23	24	TXIC2_N	
	NC	25	26	NC	
	TXID_P	27	28	TXID2_P	
TXID_N	29	30	TXID2_N		
	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	
	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	

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

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

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968

5. Working Conditions

	Normal	Mini. value	Max. value	Unit
Rated Power	4	3.3	4.8	W
Rated voltage	5	4.5	5.5	V
Rated current	0.8	0.73	0.87	A
Working temperature		-20	70	°C
Working humidity		0	95	%

END

Official website: www.linsn.com

Add: Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd,
Nanshan District, Shenzhen

Tel: +86-0755-86183590/ 4008836968