



M8

Receivers

Specifications

V3.0

Revision History

Document Version	Hardware Version	Revision Date	Note
V3.0	V1	2020/1	New edition

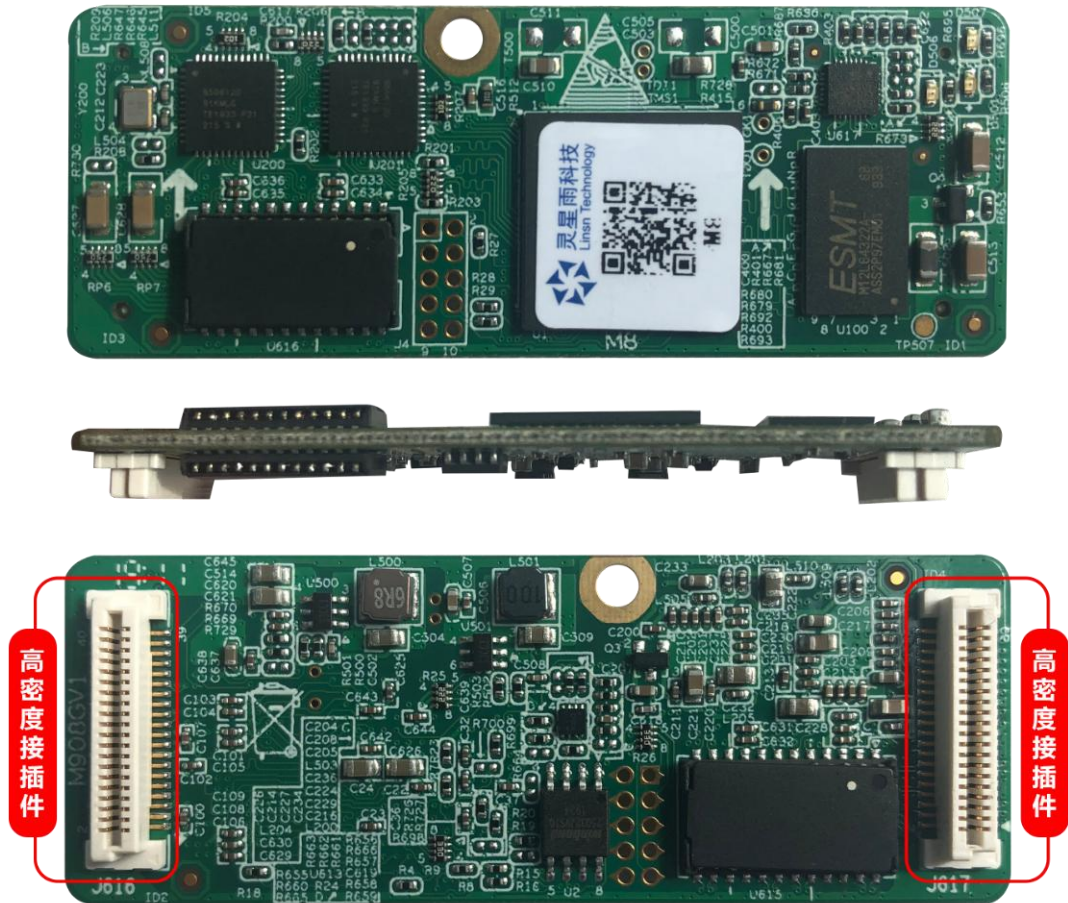
Overview

M8 is a high-end, full-featured and ultra-small size mini-receiver card. Compared with traditional receiver card, M8 uses high-density BTB connector. It is more flexible and it adapts to a variety of electronic circuit structure.

Functions and features

1. Maximum supports 512X256 pixels;
2. Single card can support 32- group RGB data output mode;
3. Supports 8-group serial data output mode;
4. Realizes high refresh and high gray level effect;
5. Supports general driver IC and PWM IC;
6. Supports single-card color space conversion;
7. Supports network cable BER test

Appearance

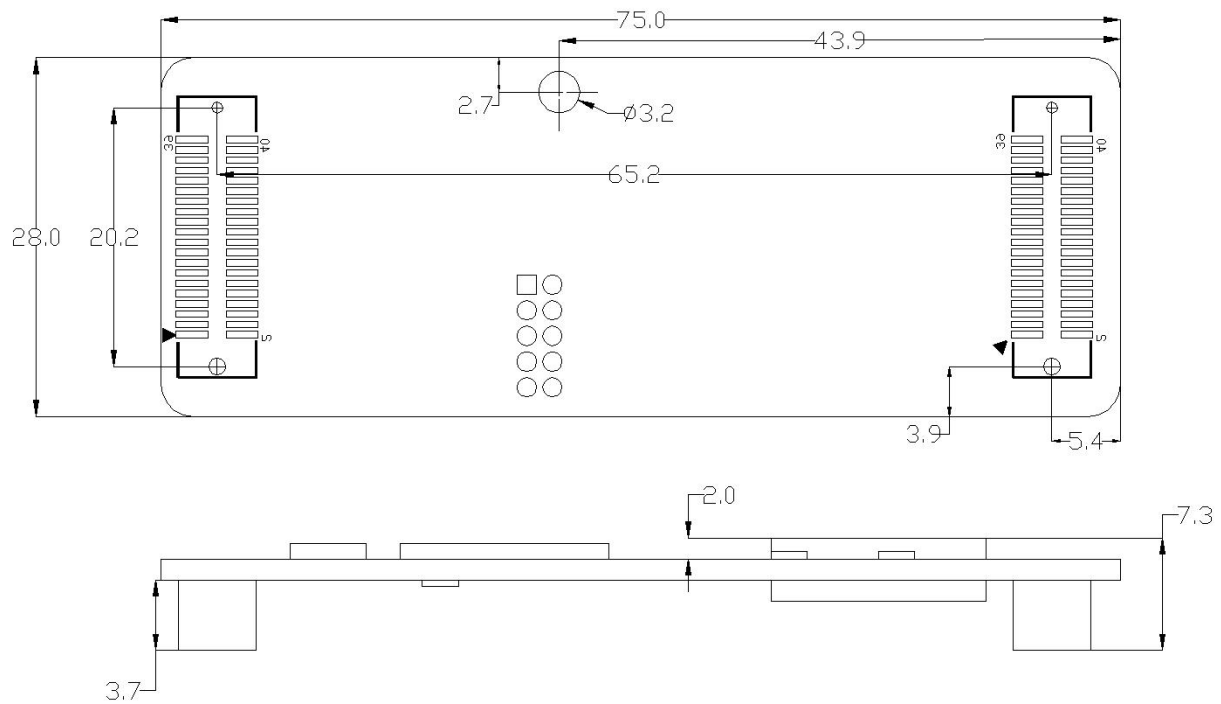


Dimensions

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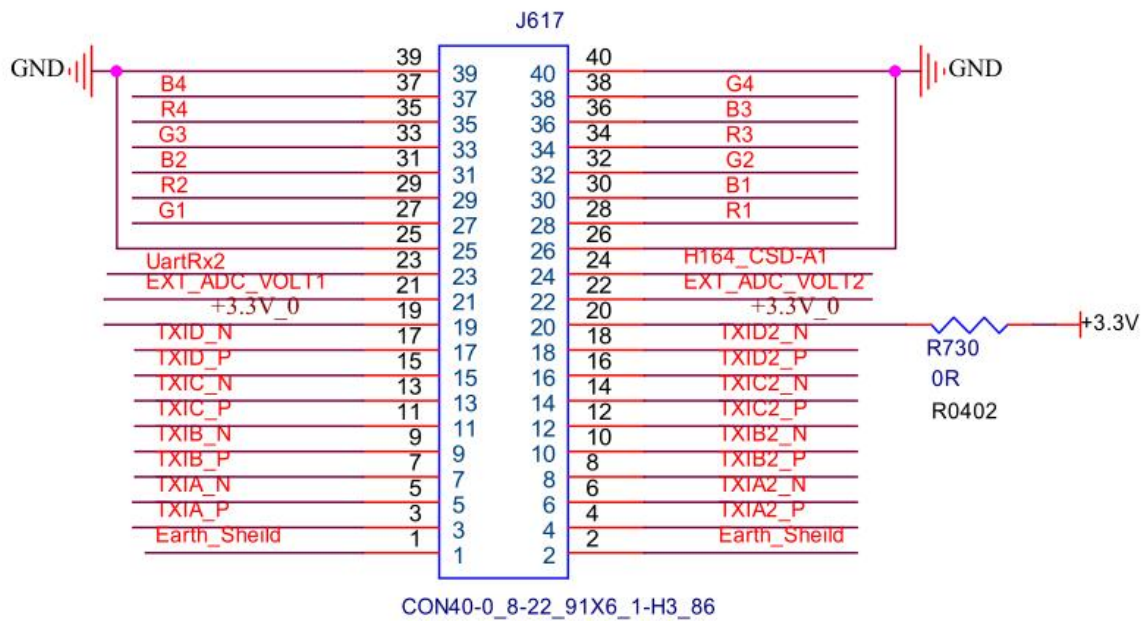
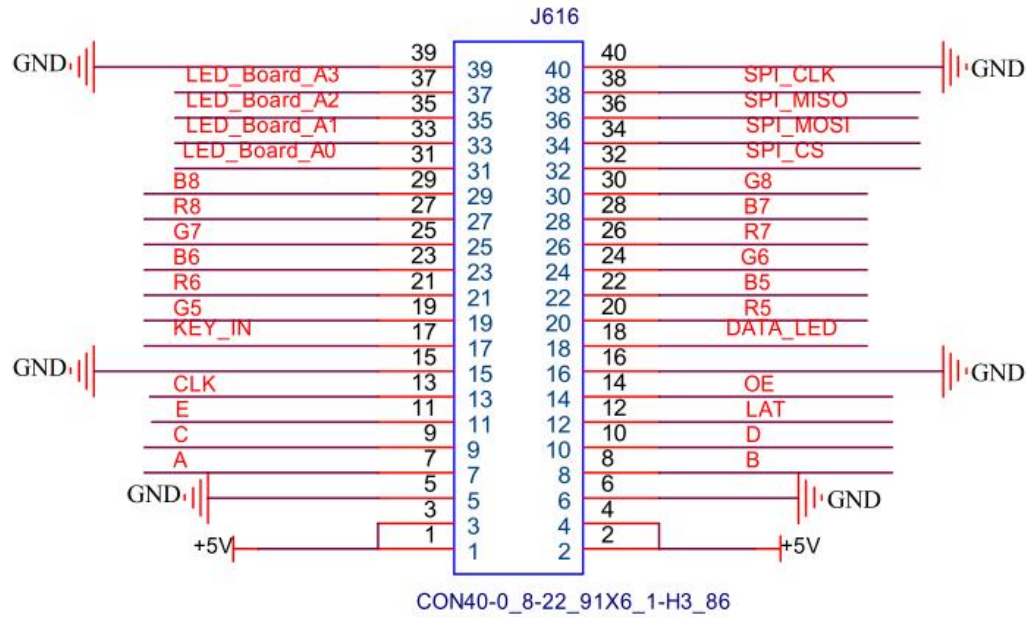


Definition (Top)

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8 group of data sets

Definition of connector1

	GND	39	40	GND	
Intelligent Module	LED_Board_A3	37	38	SPI_CLK	Intelligent Module
	LED_Board_A2	35	36	SPI_MISO	
	LED_Board_A1	33	34	SPI_MOSI	
	LED_Board_A0	31	32	SPI_CS	
	B8	29	30	G8	
	R8	27	28	B7	
	G7	25	26	R7	
	B6	23	24	G6	
	R6	21	22	B5	
	G5	19	20	R5	
	KEY_IN	17	18	DATA_LED	
	GND	15	16	GND	
	CLK	13	14	OE	
	E	11	12	LAT	
	C	9	10	D	
	A	7	8	B	
	GND	5	6	GND	
	+5V	3	4	+5V	
	+5V	1	2	+5V	

Definition of connector2

	GND	39	40	GND	
	B4	37	38	G4	
	R4	35	36	B3	
	G3	33	34	R3	
	B2	31	32	G2	
	R2	29	30	B1	
	G1	27	28	R1	
	GND	25	26	GND	
Extend function	GBIO2	23	24	GBIO3	Extend function
	GBIO0	21	22	GBIO1	

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	+3.3V_0	19	20	+3.3V_0	
Gigabit Port	TXID_N	17	18	TXID2_N	Gigabit Port
	TXID_P	15	16	TXID2_P	
	TXIC_N	13	14	TXIC2_N	
	TXIC_P	11	12	TXIC2_P	
	TXIB_N	9	10	TXIB2_N	
	TXIB_P	7	8	TXIB2_P	
	TXIA_N	5	6	TXIA2_N	
	TXIA_P	3	4	TXIA2_P	
	Earth_Sheild	1	2	Earth_Sheild	

32 group serial data output

Definition of connector 1

	GND	39	40	GND	
	Data31	37	38	Data30	
	Data29	35	36	Data28	
	Data27	33	34	Data26	
	Data25	31	32	Data24	
	Data23	29	30	Data22	
	Data21	27	28	Data20	
	Data19	25	26	Data18	
	Data17	23	24	Data16	
	Data15	21	22	Data14	
	Data13	19	20	Data12	
	KEY_IN	17	18	DATA_LED	
	GND	15	16	GND	
	CLK	13	14	OE	
	E	11	12	LAT	
	C	9	10	D	
	A	7	8	B	
	GND	5	6	GND	
	+5V	3	4	+5V	
	+5V	1	2	+5V	

Definition of connector 2

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	GND	39	40	GND	
	Data11	37	38	Data10	
	Data9	35	36	Data8	
	Data7	33	34	Data6	
	Data5	31	32	Data4	
	Data3	29	30	Data2	
	Data1	27	28	Data0	
	GND	25	26	GND	
Extend function	GBIO2	23	24	GBIO3	Extend function
	GBIO0	21	22	GBIO1	
	+3.3V_0	19	20	+3.3V_0	
Gigabit Port	TXID_N	17	18	TXID2_N	Gigabit Port
	TXID_P	15	16	TXID2_P	
	TXIC_N	13	14	TXIC2_N	
	TXIC_P	11	12	TXIC2_P	
	TXIB_N	9	10	TXIB2_N	
	TXIB_P	7	8	TXIB2_P	
	TXIA_N	5	6	TXIA2_N	
	TXIA_P	3	4	TXIA2_P	
	Earth_Sheild	1	2	Earth_Sheild	

Specifications

Capacity	512X512 Pixels	
Power	Input Voltage	DC4.5V ~ 5.5V
	Rated power consumption	2.5W
Working Environment	Temperature	-20℃ ~ 70℃
	Humidity	0% ~ 95%
Physical Dimensions	Dimensions	75.0 X 28.0 X 7.3 mm
	Weight	15.0 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	2.1kg

END

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