

2. Interface Definition Description

2.1 RGB+SPI

PIN NO.	PIN DEF.	FUNCTION DESC.
1	LEDA	POWER SUPPLY- FOR BACKLIGHT ANODE
2	LEDK	POWER SUPPLY- FOR BACKLIGHT CATHODE
3	VCC	POWER SUPPLY (3.3V)
5-13	GND	Ground
14	VSYNC	Vertical sync. Signal in RGB I/F.
15	HSYNC	Horizontal sync. Signal in RGB I/F.
16	DOTCLK	Pixel clock signal in RGB I/F
17	DE	Data enable signal in RGB I/F DE mode.
18-33	DB0-DB15	DATA BUS
34	RESET	LCM RESET PIN
35	CS	Chip Select input PIN
36	SCL	LCM SPI clock (SCL) clock (SCLK)
37	SDA	LCM SPI data (SDA) data input (MOSI)
38	GND	Ground
39	VCC	POWER SUPPLY (3.3V)
40	GND	Ground

RESET voltage should be consistent with VDDI voltage, or there probably is black screen fault when power on.

2.2 MIPI

PIN NO.	PIN DEF.	FUNCTION DESC.
1	LEDA	POWER SUPPLY- FOR BACKLIGHT ANODE
2	LEDK	POWER SUPPLY- FOR BACKLIGHT CATHODE
3	VCC	POWER SUPPLY (3.3V)
4	GND	Ground
5	D0N	Negative MIPI differential data input
6	D0P	Positive MIPI differential data input
7	GND	Ground
8	CLKN	Negative MIPI differential CLOCK input
9	CLKP	Positive MIPI differential CLOCK input
10	GND	Ground
11	D1N	Negative MIPI differential data input
12	D1P	Positive MIPI differential data input
13-37	GND	Ground
38	VCC	POWER SUPPLY (3.3V)
39	GND	Ground
40	VCC	POWER SUPPLY (3.3V)

RESET voltage should be consistent with VDDI voltage, or there probably is black screen

1. General Specifications

No.	Item	Specification	Unit
1	Display Size (Diagonal)	3.0	inch
2	Display Resolution	480(H) × RGB × 854 (V)	pixels
3	Pixel Pitch	26(H) × 78 (V)	um
4	LCM Outline Dimension (Without FPC)	42.70 (W) × 74.70 (H) × 2.45 (T)	mm
5	LCD Outline Dimension	40.33 (W) × 72.86 (H) × 1.0 (T)	mm
6	LCD Active Area	37.44 (W) × 66.61 (H)	mm
7	View Direction (Gray Inversion)	FULL VIEW	-
8	Driver IC	ST7701S-G5	-
9	Pixel Arrangement	RGB-Stripe	-
10	Display Mode	Normal Black	-
11	Pixel driving Element	a-Si TFT	-
12	LCD Transmittance	Typ.: 3.5% Min:3.1%	-
13	LCD Contrast Ratio	Typ.: 1000 Min:800	-
14	FPC Version	Z30032-P40F-R V2	-
15	Interface	MIPI/RGB+SPI	-
16	Operating Temperature	-20°C~ 70°C	-
17	Storage Temperature	-30°C~ 80°C	-
18	Backlight Arrangement	LED/6 Series 1 Parallel (6 lights in total)	-
19	Luminance	500	nit
20	Weight	0.017	kg

3. Mechanical Drawing

