10.1inch DSI Display
Product Specification

Please read this manual carefully to ensure safe operation of this product.

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1. Overview

1.1. Product Introduction

This product is a 10.1-inch color LCD module. The display module has a high-definition resolution of 1024*600, can display directly via DSI plug-in, and can be applied to various products that require screen display functions.

2. Product Features

2.1. Feature Description

- 10.1-inch IPS wide-view display
- Wide viewing angle
- True color reproduction
- Excellent dynamic image quality
- Energy saving and environmental protection
- High-definition image quality
- 1024×600 high-definition resolution for finer display effect
- Compatible with Raspberry Pi development boards
- Supports Raspberry Pi OS when used with Raspberry Pi, with single-point capacitive touch.

3. Product Parameters

3.1. LCD Panel Parameters

Item	Parameter	Unit
Screen Size	10.1	inch
Screen Type	IPS	-
Screen Resolution	1024xRGBx600	pixels
Active Display Area	222.72(W) x 125.28(H)	mm
Pixel Size	0.1461(W) x 0.1462(H)	mm
Viewing angle	ALL 0'CLOCK	deg
Backlight Type	LED	-
Operating Temperature	-20~60	℃
Storage Temperature	-30~70	℃

3.2. Touch Panel Parameters

Item	Parameter	Unit
Active Area Size	10.1	inch
Touch Panel Type	Capacitive touch screen	-
Driver IC	GT9271	-
Active Touch Area	235.00(W)x143.00(H)	mm
Viewing Window Size	223.72±0.15(W)x126.28±0.15(H)	mm
Communication Interface	I2C	-
Structure Material	ITO Glass + ITO Film	-
Operating Temperature	-20~60	℃
Storage Temperature	-30~70	℃

3.3. Dimensional Parameters

Item	Parameter	Unit
LCD Outline Size	234.40±0.2(W)x142.40±0.2(H)x2.80±0.1(D) (excluding flex cable and adhesive)	mm
Touch Panel Outline Size	235.00±0.1(W)x143.00±0.1(H)x0.4 (D) ±0.1(D)(excluding flex cable and adhesive)	mm
Module Outline	236.00±0.1(W)x145.57±0.1(H)x14.9(D)	mm

Size	±0.1(D)	

3.4. Electrical Parameters

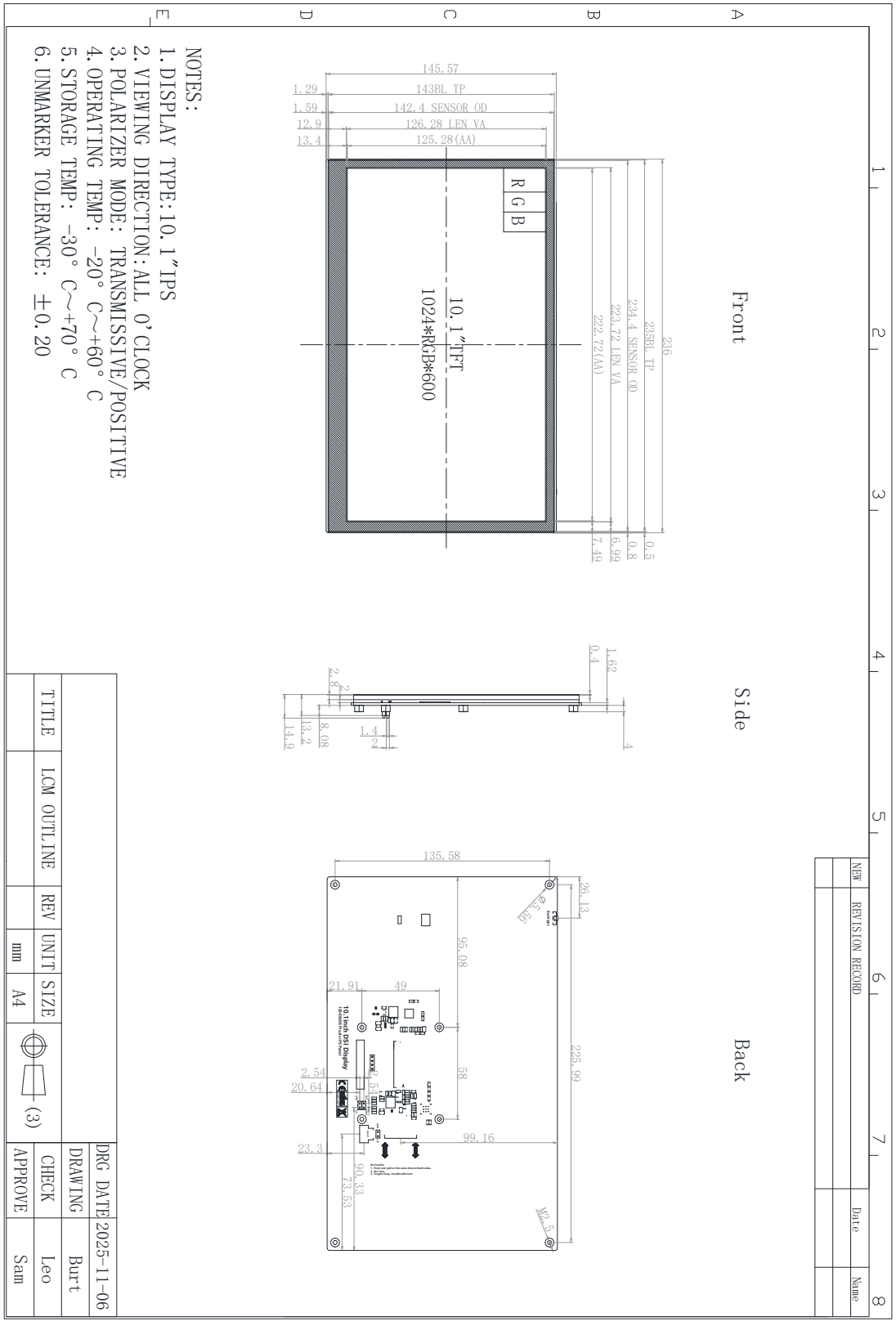
Item	Parameter	Unit
Operating Voltage	5.0	V
Backlight Brightness (Actual Value)	210	cd/m^2
Total Current	600	mA
Power Consumption	3.0	W

3.5. Other Parameters

Item	Parameter	Unit
SKU	DSI1061	-
Weight (including package)		g

4. Product Dimensional Drawing

4.1. Product Dimensional Drawing



5. Product Interface

5.1. Interface Function Description

No.	Interface/Button	function declaration
①	**MIPI DSI Interface**	Use an FPC ribbon cable with a 15P,1.00 mm pitch for the LCD screen signal input interface.
②	**Power Interface**	Powered from the top pins of Raspberry Pi via Dupont wire
③	**Pogo Pin Interface**	Used for power supply from beneath the Raspberry Pi pins and for I2C communication (the Raspberry Pi must be secured to the module with screws and copper studs).
④	**Backlight**	Press the button to adjust brightness. Short press once to increase brightness by 10%; long press to turn off the screen.

5.2. Pin Function Description

No.	Module pins	function declaration
MIPI DSI Pin Definitions		
1	GND	Ground
2	DSI_D2_N	Data Lane 2 Negative Signal (Differential Pair)
3	DSI_D2_P	Data Lane 2 Positive Signal (Differential Pair)
4	GND	Ground
5	DSI_D1_N	Data Lane 1 Negative Signal (Differential Pair)
6	DSI_D1_P	Data Lane 1 Positive Signal (Differential Pair)
7	GND	Ground
8	DSI_D0_N	Data Lane 0 Negative Signal (Differential Pair)
9	DSI_D0_P	Data Lane 0 Positive Signal (Differential Pair)
10	GND	Ground
11	DSI_CLK_N	Clock Lane Negative Signal (Differential Pair, for data synchronization)
12	DSI_CLK_P	Clock Lane Positive Signal (Differential Pair)
13	GND	Ground
14	DSI_TE	tearing effect signal, used for vertical synchronization (optional; some displays require it)
15	3.3V	Power output (3.3V, max current approx. 200mA, auxiliary power supply for display)

No.	Module pins	function declaration
LCD Control Pins		
1	LED+	POWER SUPPLY FOR BACKLIGHT positive terminal
2	LED+	POWER SUPPLY FOR BACKLIGHT positive terminal
3	LED-	THE BACKLIGHT GROUND: Backlight Negative Electrode
4	LED-	THE BACKLIGHT GROUND: Backlight Negative Electrode
5	GND	GROUNDGround
6	VCOM	FOR EXTERNAL VCOM DC INPUT: External COM direct connection voltage input
7	DVDD	DIGITAL POWER Digital Power Supply
8	MODE	DE/SYNC MODE SELECT MODE=H: DE MODE(NORMALLY PULL HIGH) MODE=L: HSD/VSD MODE DE/SYNC mode selection MODE is at high level: DE mode normally pulled high MODE is at low level: HSD/VSD mode
9	DE	DATA ENABLE SIGNAL: Data Enable Signal
10	VSD	VERTICAL SYNC INPUT IN RGB MODE: Vertical sync signal
11	HSD	HORIZONTAL SYNC INPUT IN RGB MODE: Horizontal sync signal
12	B7	BLUE DATA Blue Signal
13	B6	BLUE DATA Blue Signal
14	B5	BLUE DATA Blue Signal
15	B4	BLUE DATA Blue Signal
16	B3	BLUE DATA Blue Signal
17	B2	BLUE DATA Blue Signal
18	B1	BLUE DATA Blue Signal
19	B0	BLUE DATA Blue Signal
20	G7	GREEN DATA Green Signal
21	G6	GREEN DATA Green Signal
22	G5	GREEN DATA Green Signal
23	G4	GREEN DATA Green Signal
24	G3	GREEN DATA Green Signal
25	G2	GREEN DATA Green Signal
26	G1	GREEN DATA Green Signal
27	G0	GREEN DATA Green Signal
28	R7	RED DATA Red signal
29	R6	RED DATA Red signal
30	R5	RED DATA Red signal
31	R4	RED DATA Red signal

32	R3	RED DATA Red signal
33	R2	RED DATA Red signal
34	R1	RED DATA Red signal
35	R0	RED DATA Red signal
36	GND	GROUNDG round
37	DCLK	CLOCK SIGNAL RGB clock signal
38	GND	GROUNDG round
39	SHLR	SOURCE RIGHT OR LEFT SEQUENCE CONTROL SHLR=H: RIGHT SHIFT, LEFT TO RIGHT SHLR=L: LEFT SHIFT, RIGHT TO LEFT SOURCE RIGHT OR LEFT SEQUENCE CONTROL SHLR is high level: right shift display, from left to right SHLR is low level: left shift display, from right to left
40	UPDN	GATE UP OR DOWN SCAN CONTROL UPDN=H: UP SHIFT, DOWN TO UP UPDN=L: DOWN SHIFT, UP TO DOWN GATE UP OR DOWN SCAN CONTROL UPDN=H: UP SHIFT, DOWN TO UP UPDN=L: DOWN SHIFT, UP TO DOWN
41	VDDG(VGH)	POSITIVE POWER FOR TFT Gate Positive Voltage
42	VEEG(VGL)	NEGATIVE POWER FOR TFT gate negative voltage
43	AVDD	ANALOG POWER Analog Power
44	RSTB	GLOBAL RESET PIN：ACTIVE LOW TO ENTER RESET STATE. NORMALLY PULL HIGH. SUGGEST TO CONNECTING WITH AN RC RESET CIRCUIT FOR STABILITY. Global reset pin: active low, enters reset state. It is pulled high under normal circumstances. It is recommended to connect an RC reset circuit to maintain stability.
45	NC	NC
46	VCOM	FOR EXTERNAL VCOM DC INPUT External COM Direct Connection Voltage Input
47	DITH	DITHERING SETTING DITH="H" 6-BIT RESOLUTION (LAST 2 BITS OF INPUTDATA TURNCATED) DITH="L" 8-BIT RESOLUTION (DEFAULT SETTING) DITHERING SETTING DITH="H" 6-BIT RESOLUTION (LAST 2 BITS OF INPUT DATA TRUNCATED) DITH="L" 8-BIT RESOLUTION (DEFAULT SETTING)
48	GND	GROUNDG round
49	NC	NC
50	NC	NC

6. Precautions

6.1. Safe Product Operation

- Do not press or hit the screen with force to avoid damaging the screen.
- Do not scratch the screen with hard objects to avoid scratching the screen surface.
- Do not place heavy objects on the product to avoid crushing the screen.
- Please keep the product clean. Do not drip water or oil on the screen.
- Please wipe the screen with a clean, soft and dry cloth. Do not spray water or cleaning agent directly on the screen.
- Do not disassemble the product arbitrarily to avoid damaging the screen or flex cable.
- Do not place the product in high temperature or high humidity environments.
- Please place the product face up on a stable surface to avoid falling and damage.
- Please use the correct voltage for the product to avoid damage caused by excessive voltage.
- Do not touch components or pins with wet hands during product operation to avoid short circuit and product damage.
- Please unplug the power supply when the product is not used for a long time.