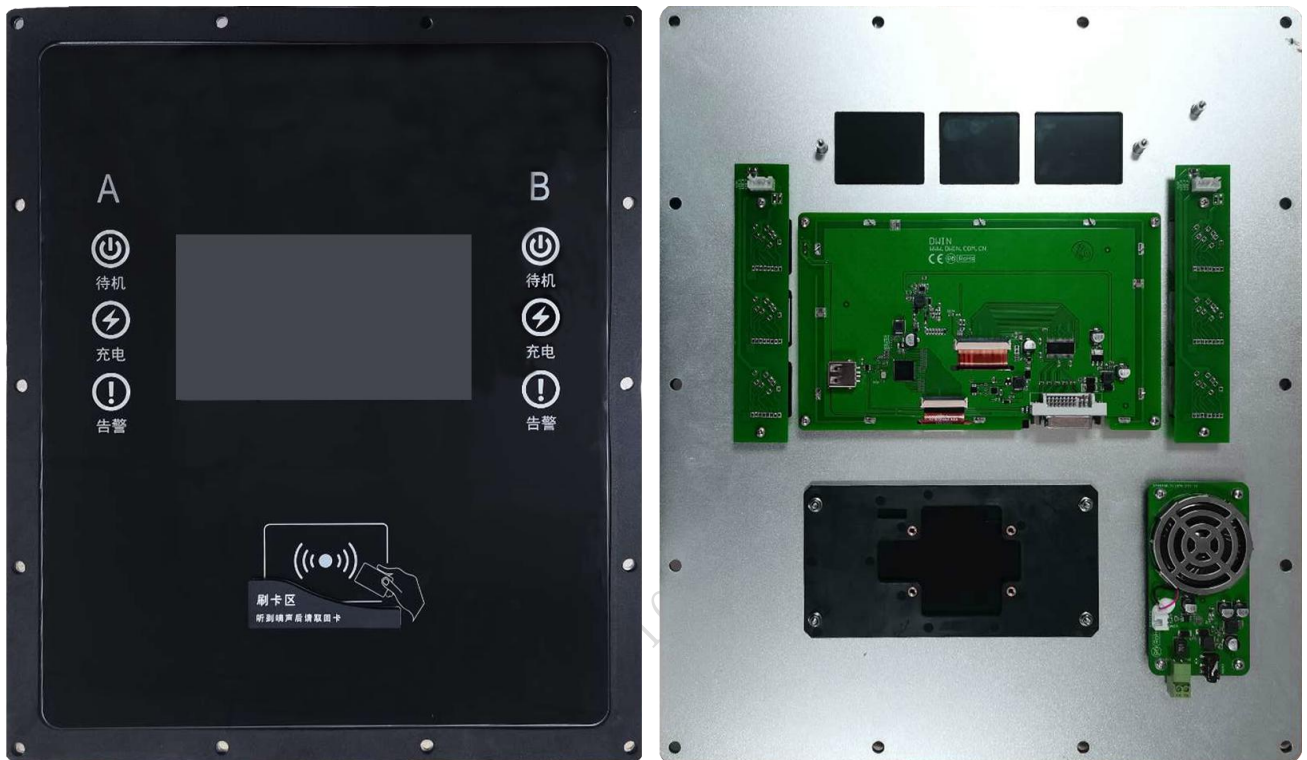


HDW070_005LGWS

7.0 Inches, 800xRGBx480, 16.7M Colors, CTP, LVDS LCM



● Display

Item	Parameter	Description
Color	16.7M	24 bit color 8R8G8B
Active Area (A.A.)	155.08(W)×86.92(H)mm	800×480 Pixel
View Area (V.A.)	154.08(W)×85.92(H)mm	800×480 Pixel
Resolution	800×480	-
Backlight	LED	>20000 hours (Time of the brightness decaying to 50% on the condition of continuous working with the maximum brightness)
Brightness	750nit	Equipped with automatic multi-level backlight adjustment function, with an adjustment range of 150nit to 750nit
Note: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.		

● Voltage & Current

Item	Conditions	Min	Typ	Max	Unit
Power Voltage	-	3.6	5.0	6.0	V
Operation Current (Not connected)	VCC = +5V, Backlight on	-	660	-	mA
	VCC = +5V, Backlight off	-	140	-	mA
Recommended power supply: 5V 1.5A DC					

● Reliability Test

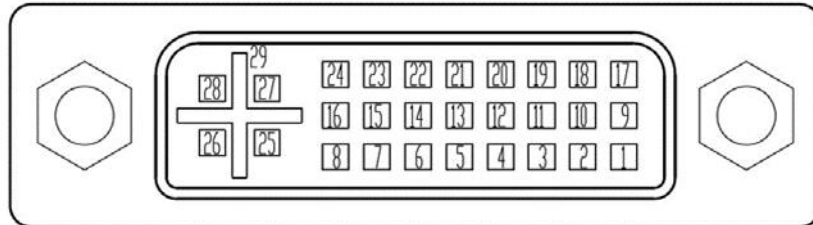
Item	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 5V voltage	-20	25	70	℃
Storage Temperature	-	-30	25	80	℃
Working Humidity	25℃	10%	60%	90%	RH
Protective Paint	-	-	Yes	-	-
UV resistance level	F1 level				
RS	80M-960M 10V/m Class A 1.4G-6G 3V/m Class A (GB/T 17626.3-2016)				
ESD	Contact±6KV Air±8KV above Class B (GB/T 17626.2-2018)				
PMS	30A/m 50Hz Class A (GB/T 17626.8-2006)				
EFT	±2KV above Class B (GB/T 17626.4-2018)				
Surge	±1KV above Class B (GB/T 17626.5-2019)				
CS	0.15-80M 10Vrms Class A (GB/T 17626.6-2017)				
Salt Spray Test	Salt spray sodium chloride concentration of 5%, 48 hours or according to product requirements, there is no damage to the appearance, and the metal parts are not rusted (GB/T2423.18)				

Peripheral Support

Peripheral Support	Support Capacitance Touch Screen, Speaker, LED light
Touch recognition	Multi touch ≥ 5

Interface performance parameters

Item	Description
Interface mode	LVDS, the interface definition is shown in the dimension diagram (VDD=+5.0V)
User interface	DVI-I interface



DVI-I interface

Pin	Signal name	function	Description
1	RX2-	Input	Negative LVDS Differential Data Input
2	RX2+	Input	Positive LVDS Differential Data Input
3	GND	Power	GND
4	BL_PWM	Input	Backlight dimming control, PWM used to adjust brightness output
5	NC	-	No connection
6	VDD	Power	5.0V Power input
7	VDD	Power	5.0V Power input
8	VDD	Power	5.0V Power input
9	RX1-	Input	Negative LVDS Differential Data Input
10	RX1+	Input	Positive LVDS Differential Data Input
11	GND	Power	GND
12	RX3-	Input	Negative LVDS Differential Data Input
13	RX3+	Input	Positive LVDS Differential Data Input
14	VDD	Power	5.0V Power input
15	GND	Power	GND
16	GND	Power	GND
17	RX0-	Input	Negative LVDS Differential Data Input
18	RX0+	Input	Positive LVDS Differential Data Input
19	GND	Power	GND
20	USB_DM	I/O	USB D- signal

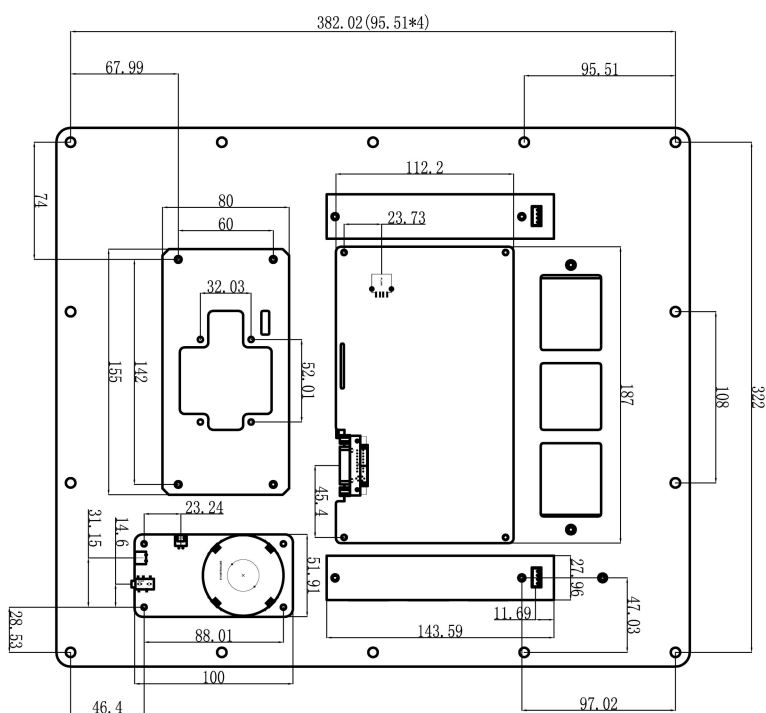
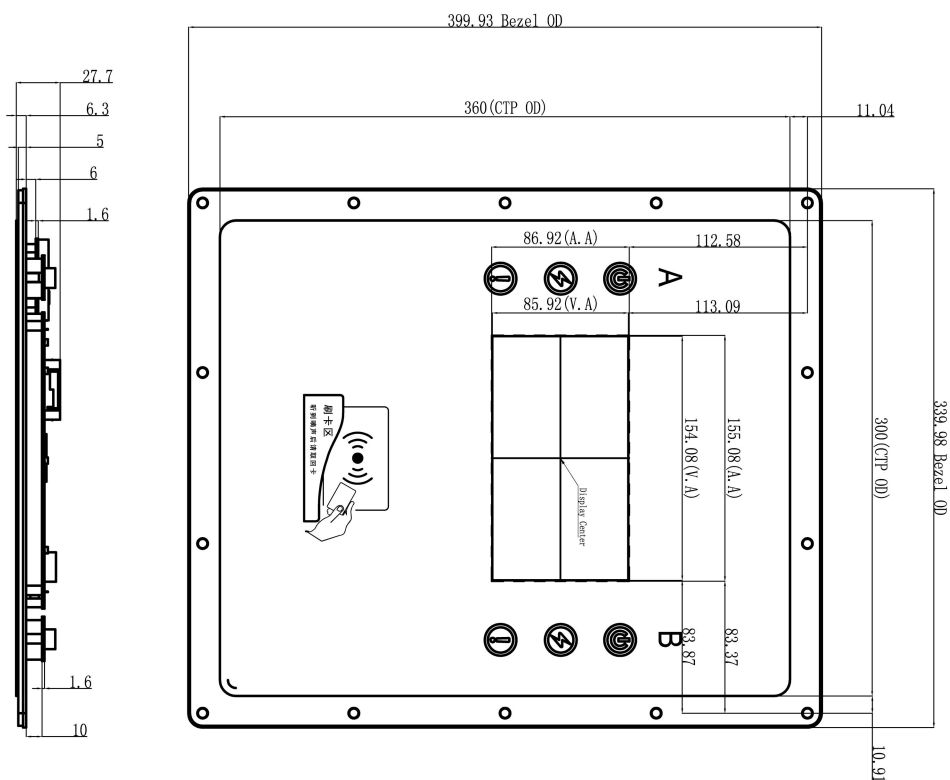
21	USB_DP	I/O	USB D+ signal
22	GND	Power	GND
23	RXCLK+	Input	Clock Positive LVDS Differential Data Input
24	RXCLK-	Input	Clock Negative LVDS Differential Data Input
25	VDD	Power	5.0VPower input
26	VDD	Power	5.0VPower input
27	NC	-	No connection
28	NC	-	No connection
29	GND	Power	GND

Note: 1、USB interface is for factory burning test, not open to customers.

2、Interface timing refers to the corresponding LCD timing parameters. Please contact DWIN salesman for confirmation.

● Packing Capacity & Dimension

Dimension	339.98(W)×399.93(H)×27.70(T)mm
Net Weight	1810g



Location hole is used as position reference.

Unmarked Tolerance is $\pm 0.3\text{mm}$

Active area is marked in Dash lines

Model	HDW070_005LCMS					DWIN Technology			
Drawing	A 4	Drawn	DWIN	Date	2023.12.6				
Scale	1 : 1	Review		Date					
Unit	MM	Approval		Date					

Revision records

Rev	日 Revise Date	Content	Editor
00	2023-12-06	First Editor	Zheng Yunjia
01	2025-01-16	Change brightness	GMX
02	2025-10-17	English Version	Chen

Please contact us if you have any questions about the use of this document or our products, or if you would like to know the latest information about our products:

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Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!

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