HDW070_002L

7.0-inch, 800*480, 65K colors,

Resistive Touch, LVDS multimedia display

Display

Item	Parameter	Description
Color	65K(65536)	16bit color 5R6G5B
Active Area (A.A.)	154.1mm(W) ×85.9mm(H)	800x480
Resolution	800x480	-
Backlight	LED	-
Brightness	600nit	-
Note: Displaying of high-contrast still images for more than 30 minutes may result in residual images. Please add screen saver to avoid this problem..		

Voltage & Current

Item	Conditions	Min	Typ	Max	Unit
Power Voltage	-	3.6	5.0	6.0	V
Working Current	VCC= +5V, Backlight max	-	760	-	mA
	VCC= +5V, Backlight off	-	140	-	mA
Recommended power supply: 5V 1A 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
Conformal Coating	-	-	None	-	-

Peripheral

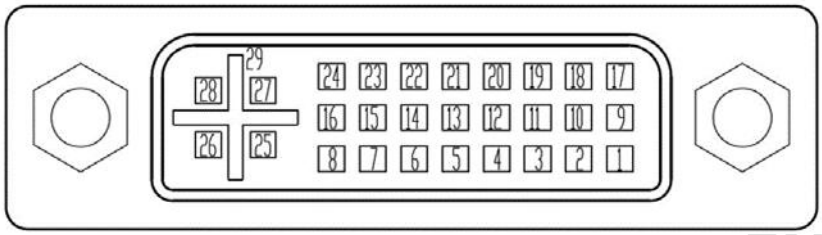
Peripheral	4 Resistive touch screen

Installation

Properties	Description
Enclosure Material	ABS engineering material
Enclosure Color	Black
Hole Size	209.40(mm)×149.2(mm)×23.90(mm)
Installation Depth	20.85(mm) (maximum depth when connecting the connector)
Accessories	Waterproof rubber washers and buckles

Interface

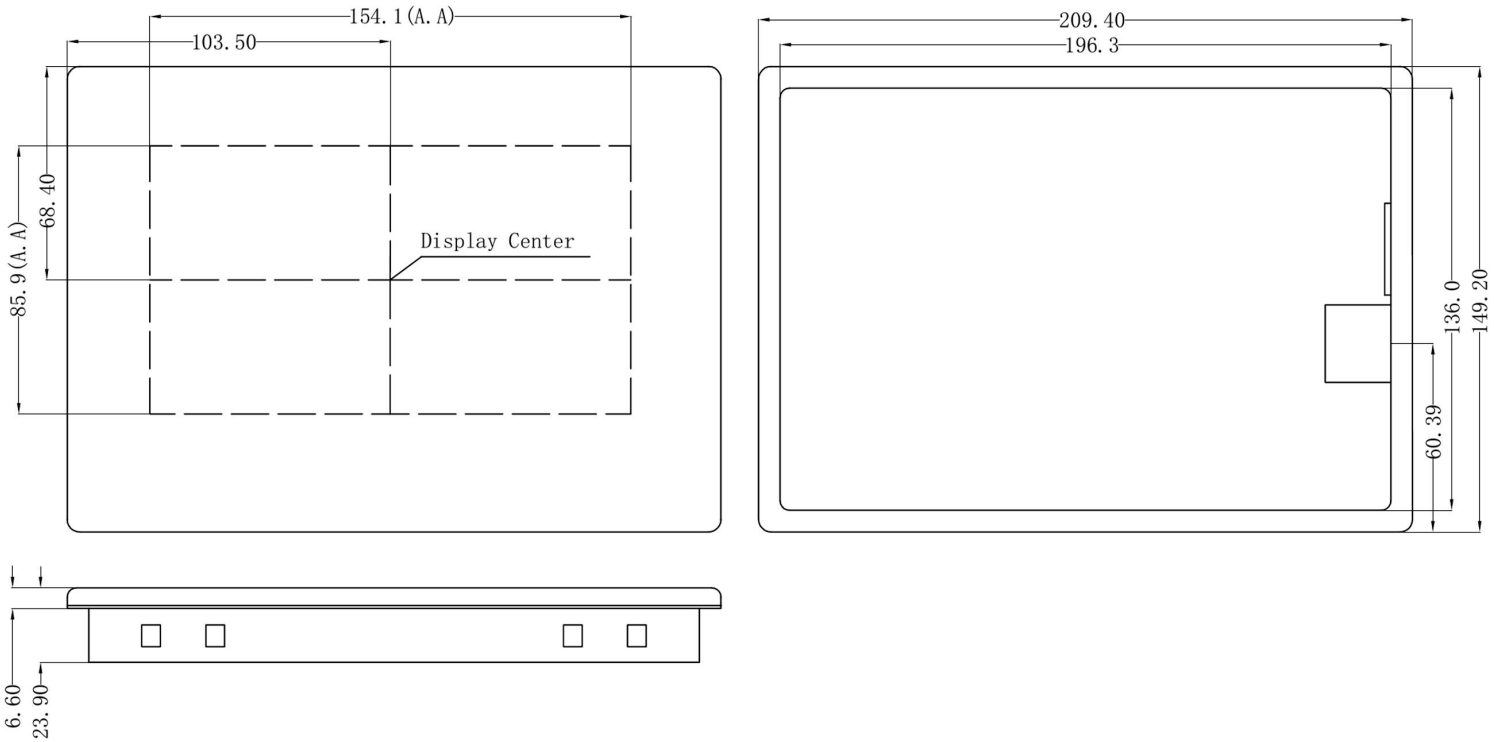
Item	Description
Interface	LVDS(VDD=+5.0V)
User interface	DVI-I



DVI-I interface

Pin	Name	Function	Description
1	RX2-	Input	-LVDS Differential data Input input
2	RX2+	Input	+ LVDS Differential data Input
3	GND	Power	GND
4	BL_PWM	Input	Backlight dimming control, PWM is used to adjust brightness output.
5	NC	-	NC
6	VDD	Power	5.0V Power Input
7	VDD	Power	5.0V Power Input
8	VDD	Power	5.0V Power Input
9	RX1-	Input	- LVDS Differential data Input
10	RX1+	Input	+LVDS Differential data Input
11	GND	Power	GND
12	RX3-	Input	-LVDS Differential data Input
13	RX3+	Input	+LVDS Differential data Input
14	VDD	Power	5.0V Power Input
15	GND	Power	GND
16	GND	Power	GND
17	RX0-	Input	- LVDS Differential data Input
18	RX0+	Input	+ 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 + LVDS Differential data Input
24	RXCLK-	Input	Clock - LVDS Differential data Input
25	VDD	Power	5.0V Power Input
26	VDD	Power	5.0V Power Input
27	NC	-	NC
28	NC	-	NC
29	GND	Power	GND

Note: Interface timing refers to the corresponding LCD timing parameters. Please contact DWIN salesman for confirmation.



Location hole is used as position reference

Unmarked Tolerance is +/-0.3mm

Active area is marked in dashes.

Model	HDW070_002L					DWIN Beijing DWIN Technology Co., Ltd.				
Drawing	A4	Drawn	DWIN	Date						
Scale	1:1	Review		Date						
Unit	mm	Approval		Date						

Revision Records

Version	Revise date	Content	Editor
00	2023-7-18	First Edition	Kaya
01	2024-4-12	Add Important Disclaimer	YML
02	2025-02-21	Modify Brightness Value	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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