

HDW070_NR

7.0-inch, 800*480, 65K colors,
LVDS multimedia display



1 Display parameters

Properties	Parameters	Description
Color	65K (65536) colors	16 bit color 5R6G5B
Active area (A.A.)	154.1 mm (W) ×85.9 mm (H)	800x480
Viewing area(V.A.)	156.2 mm (W) ×88.5 mm (H)	800*480
Resolution	800x480	-
Backlight	LED	≥20000H (Continuous working with maximum brightness, time of the brightness decays to 50%)
Brightness	900nit	Can carry out 100-level brightness level (When the brightness is adjusted to 1% to 30% of the maximum brightness, flickering may occur, and it is not recommended to use in this range)

Note: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.

2 Voltage & current

Item	Conditions	Min	Typical	Max	Unit
Power voltage	-	3.6	5.0	6.0	V
Operating Current	VCC = +5V, Maximum backlight brightness	-	760	-	mA
	VCC = +5V, Backlight off	-	140	-	mA

Recommended power supply: 5V 1A DC

3 Reliability test

Item	Conditions	Min	Typical	Max	Unit
Operating temperature	60%RH at 5V voltage	-20	25	70	℃
Storage temperature	-	-30	25	80	℃
Operating humidity	25℃	10%	60%	90%	RH
Conformal coating	None				
Ageing time	None				

4 Interface parameters

Properties	Conditions
Interface cable	LVDS(VDD=+5.0V)
User interface	DVI-I

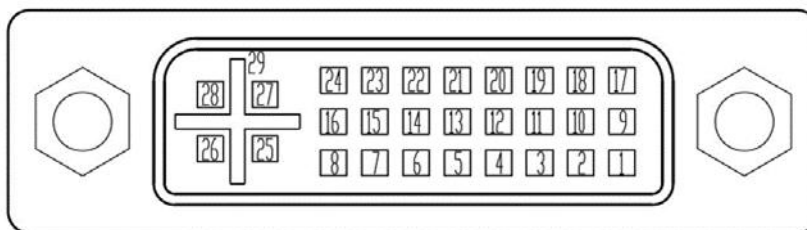
5 Peripheral

Peripheral	4 Resistive touch screen
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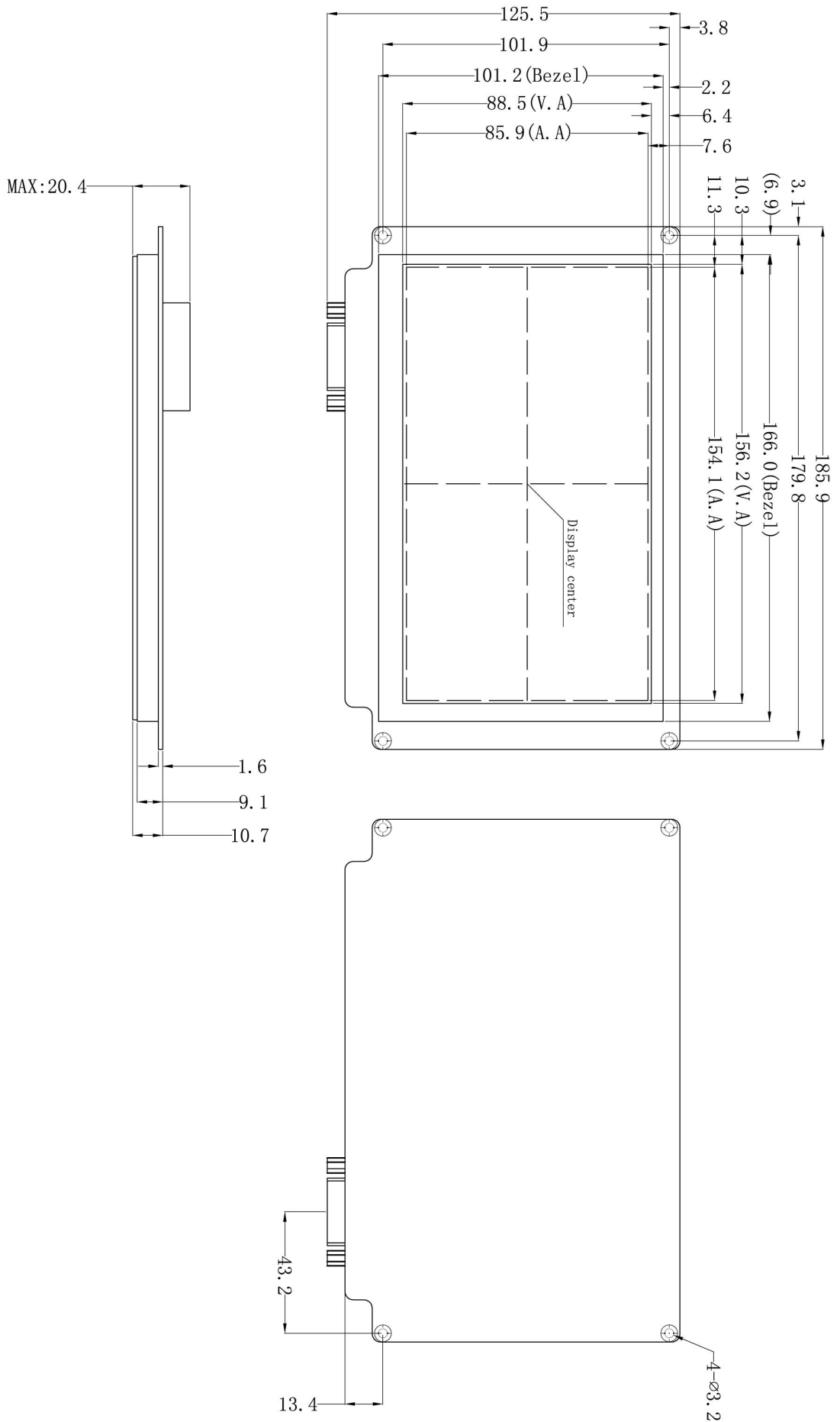
6 Packaging & dimensions

Dimension				
Dimension	185.9(W)×125.5(H)×20.4(T)mm			
Net Weight	300g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)×160mm(W)×47mm (H)	-	-	-
Carton2:	250mm(L)×200mm(W)×80mm (H)	2	1	2
Carton3:	320mm(L)×270mm(W)×80mm (H)	2	1	2
Carton4:	450mm(L)×350mm(W)×300mm(H)	1	16	16
Carton5:	600mm(L)×450mm(W)×300mm(H)	1	30	30

Disclaimer: The product design is subject to alternation and improvement without prior notice.

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



1. Display center is used as position reference.

2. Unmarked Tolerance is +/-0.3mm.

Display Area is marked in Dash lines.

Model	HDW070_NR			DWIN Technologies			
Drawn	A4	Drawing	DWIN	Data	Data	Data	
Scale		Check					
Unit	mm	Approval		Data			

7 Revision records

Version	Revise date	Content	Editor
00	2023-7-31	First Edition	Kaya

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