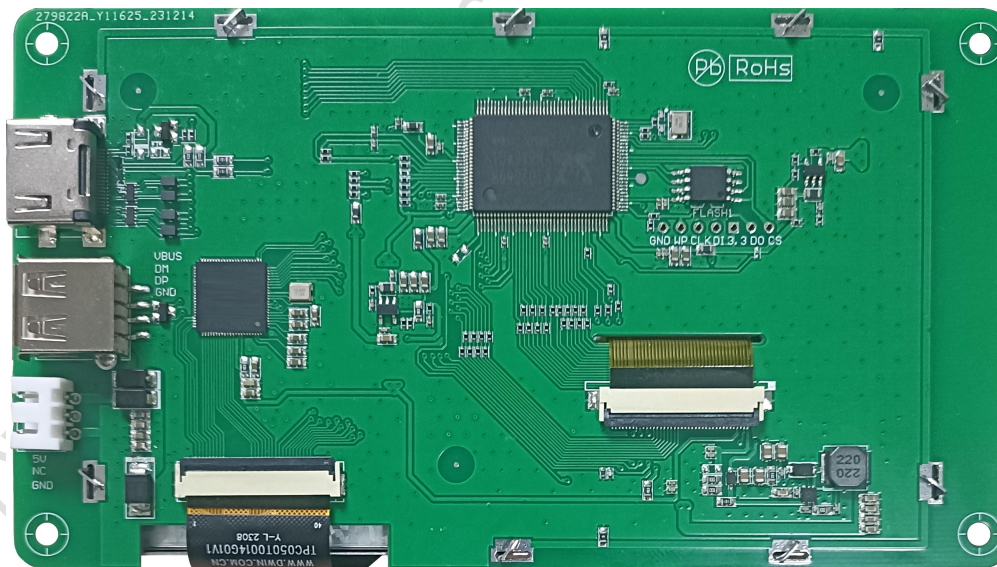


# HDW050\_003L

5.0 Inch, 800\*RGB\*480, 16.7M Colors, TN screen, Capacitive touch



## ● Display

Item	Parameter	Description
Color	16.7M (16777216) colors	24 bit color 8R8G8B
Panel Type	TN	TN TFT LCM , normal viewing angle
Viewing Angle	70/70/50/70(L/R/U/D)	-
Active Area(A.A.)	108.60 mm (W)*65.40mm (H)	800*480
View Area(V.A.)	108.60 mm (W)*65.40mm (H)	800*480
Resolution	800*480	Support 0°/90°/180°/270°rotated display
Backlight	LED	≥20000H(Continuous working with maximum brightness, time of the brightness decays to 50%)
Brightness	250nit	-

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	-	4.5	5.0	5.5	V
Operation Current	VCC = +5V, Backlight on	-	420	-	mA
	VCC = +5V, Backlight off	-	120	-	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	°C
Storage Temperature	-	-30	25	80	°C
Working Humidity	25°C	10%	60%	90%	RH
Protective Paint	-	-	None	-	-
ESD	Contact discharge: ± 6KV; Air discharge: ± 8KV				

## ● Interface

Item	Description
Socket	3Pin_2.54mm FCC Socket(Power interface),HDMI interface
USB Interface	Yes(Connected to touch screen only)
SD Card Slot	None

## ● Peripheral

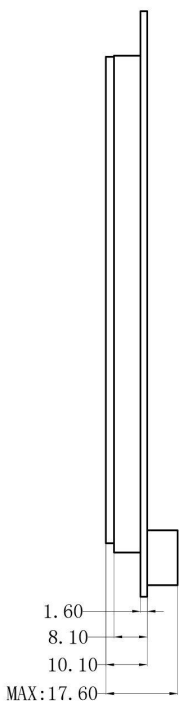
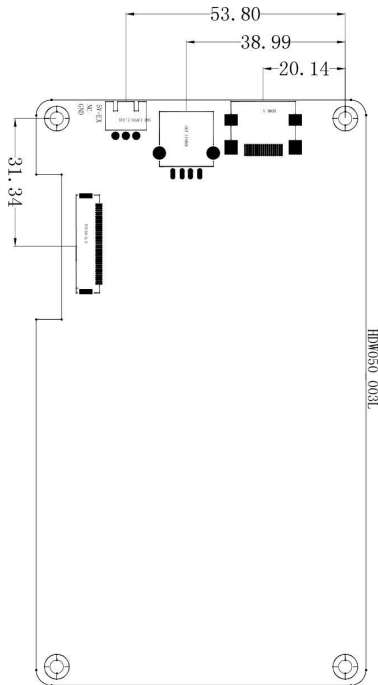
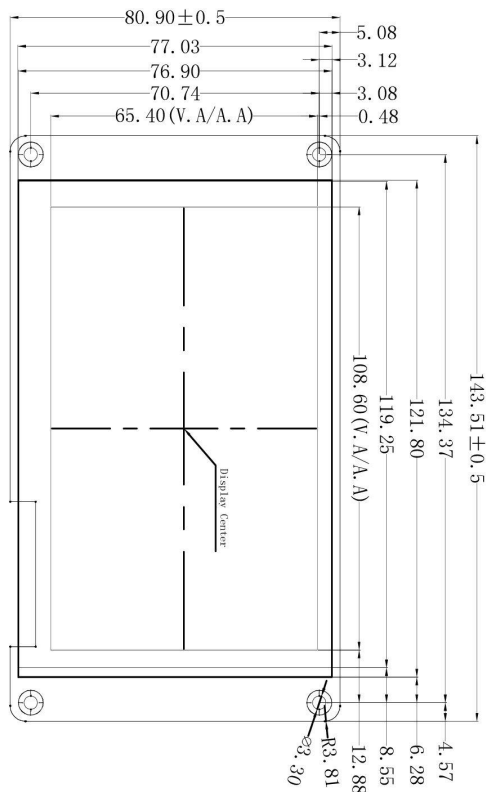
Peripheral	
Peripheral	Capacitive touch panel

● **Packing Capacity & Dimension**

Dimension				
<b>Dimension</b>	143.51(W)*80.90(H)*17.60(T) mm			
<b>Net Weight</b>	160g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
<b>Carton1:</b>	220mm(L)*160mm(W)*47mm (H)	1	1	1
<b>Carton2:</b>	250mm(L)*200mm(W)*80mm (H)	2	2	4
<b>Carton3:</b>	320mm(L)*270mm(W)*80mm (H)	2	3	6
<b>Carton4:</b>	450mm(L)*350mm(W)*300mm(H)	2	30	60
<b>Carton5:</b>	600mm(L)*450mm(W)*300mm(H)	2	60	120

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

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Definition	Pin#	I/O	Description
5V-EX	1	P	5V Power Supply
NC	2	-	No Connection
GND	3	P	Ground

HDMI Name	HDMI Description	HDMI Name	HDMI Description
Pin1	TMS Data0+	Pin11	TMS Clock Shield
Pin2	TMS Data0 Shield	Pin12	TMS Clock-
Pin3	TMS Data0-	Pin13	CDC
Pin4	TMS Data1+	Pin14	HCC Data- (Optional, HDMI 1.4 with Ethernet)
Pin5	TMS Data1 Shield	Pin15	SC1 (22C Serial Clock for DDC)
Pin6	TMS Data1-	Pin16	SM (22C Serial Data Line for DDC)
Pin7	TMS Data0+	Pin17	DDC/CEC/HCC Ground
Pin8	TMS Data0 Shield	Pin18	+5V Power (max 50mA)
Pin9	TMS Data0-	Pin19	Hot Plug Detect (ATI versions) and HCC Data+ (Optional, HDMI 1.4 with Ethernet)
Pin10	TMS Clock+		

Model	HDW050-003L		
Drawing	A 4	Drawn	G. Y
Scale	1 : 1	Review	
Unit	MM	Approval	
		Date	2021.04.20
		Date	

1. Location hole is used as position reference.  
 2. Unmarked Tolerance is +/-0.3mm  
 Active area is marked in Dash lines

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**● Record of Revision**

<b>Ver</b>	<b>Revise Date</b>	<b>Content</b>	<b>Editor</b>
00	2022-12-16	First Edition	Kaya
01	2024-01-03	HDMI interface IC scheme change	YML

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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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