

TC070C22U00

Based on T5L ASIC 7.0 Inches, 1024xRGBx600, 16.7M Colors, IPS screen



● Display

Item	Parameter	Description
Color	16.7M colors	16 bit color 8R8G8B
Panel Type	IPS	IPS TFT LCM, wide viewing angle
Viewing Angle	85/85/85/85 (L/R/U/D)	Best View: symmetrical
Active Area (A.A)	153.7mm (W) * 85.2mm (H)	1024*600 Pixels
View Area (V.A.)	154.2mm (W) * 85.9mm (H)	1024*600 Pixels
Resolution	1024x600	90° rotated display (600*1024)
Backlight	LED	-
Brightness	250nit	100 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum,which may lead a flicker)

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	-	6.0	12.0	36.0	V
Operation Current	VCC = +12V, Backlight on	-	240	-	mA
	VCC = +12V, Backlight off	-	80	-	mA

● Operating Environment

Item	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	60	℃
Storage Temperature	-	-30	25	70	℃
Working Humidity	25℃	10%	60%	90%	RH
Protective Paint	-	-	None	-	-
Aging Test	-	-	None	-	H

● Interface

Item	Conditions	Min	Typ	Max	Unit
Baud Rate	UART2 (The baud-rate is not altered)	-	115200	-	bps
	UART5	1200	115200	-	bps
(V_AB)	Output 1	2.5	5.0	-	V
	Output 0	-	-5.0	-2.5	V
(V_AB)	Input 1	0	2.5	-	V
	Input 0	-	-2.5	-0.2	V
Interface	RS485				
Socket	4Pin_5.08mm				
USB Interface	None				
SD Card Slot	YES (Micro SDHC(TF) card /FAT32 Format)				
Speaker Interface	2Pin_2.0mm				

Memory

Item	Typical value	Features	Typ value	Unit	Description
FLASH (TA/DGUS II)	16Mbytes	Space of Font	4-12	Mbytes	A single font of 256Kbytes, store font, icon libraries, and other binary files
		Picture Storage (.ICL file)	12-4	Mbytes	JPEG format (Picture quantity relate to JPEG size, size of a single JPEG image file should not exceed 248 Kbytes)
RAM (DGUS II)	128Kbytes	Variable Storage Space	/	/	Data is not saved when power down
Nor Flash (DGUS II)	512Kbytes	User database	/	/	Data is saved when power down

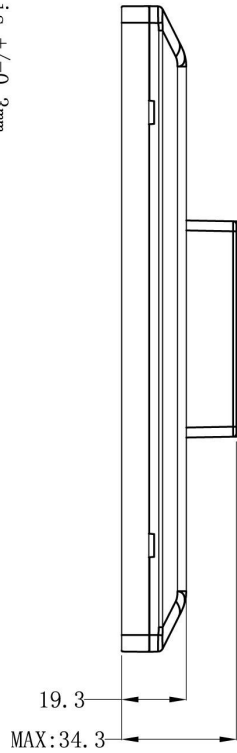
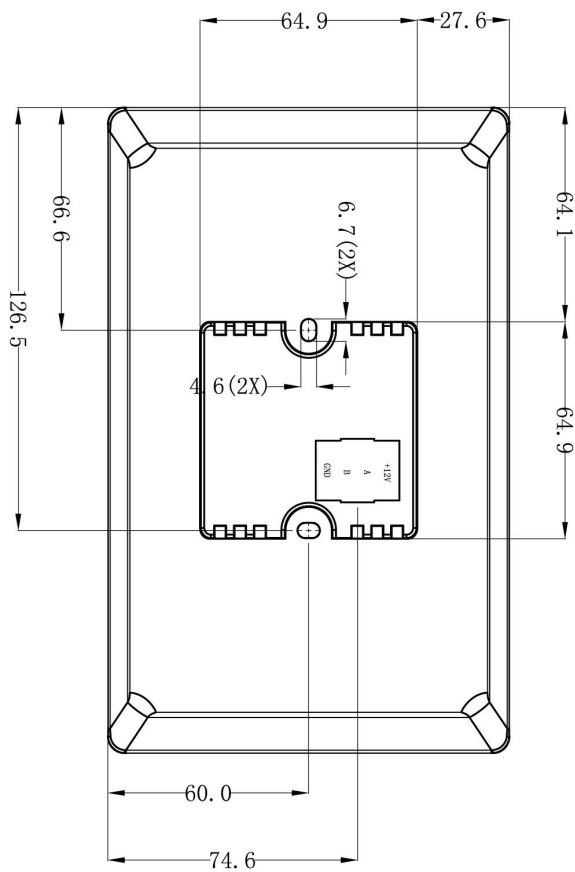
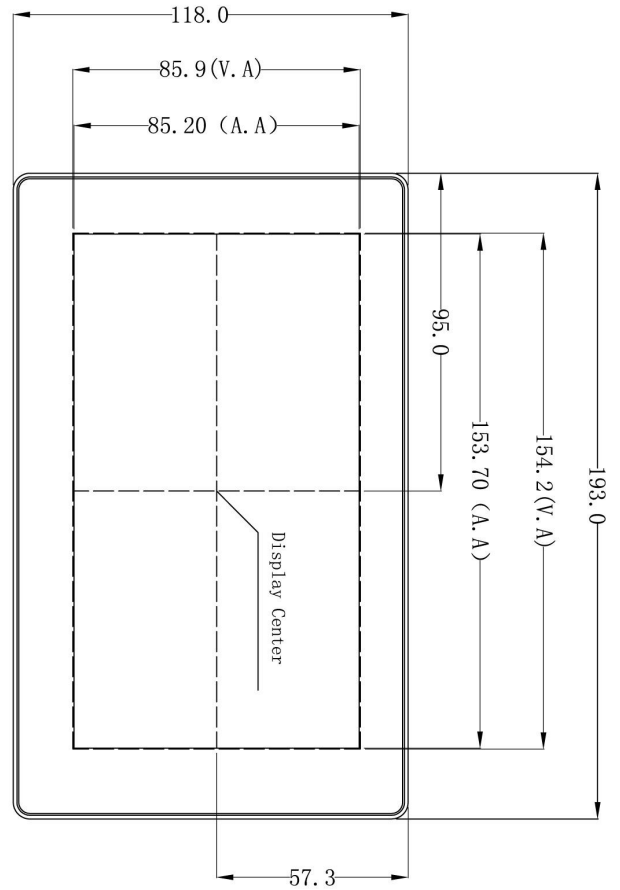
UI & Peripheral

UI & Peripheral	
UI Version	TA / DGUS II (DGUS II pre-installed)
Peripheral	Capacitance touch screen, Speaker, Built-in RTC

Dimension

Dimension				
Dimension	193.0(W) *118.0(H) *34.3(T) mm			
Net Weight	415g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	-	-
Carton2:	250mm(L)*200mm(W)*80mm (H)	1	2	2
Carton3:	320mm(L)*270mm(W)*80mm (H)	-	-	-
Carton4:	450mm(L)*350mm(W)*300mm(H)	-	-	-
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	30	30

Remark: There is no extra-notice if the product design changes that do not affect performance parameters and use.



Instruction: The transparent area of touch screen is designed to be smaller than active area(A.A.) of LCD, to prevent the LCD frame from being seen.

Unmarked Tolerance is $\pm 0.3\text{mm}$
Active area is marked in Dash lines

Pin	Definition	Type	Description
+12V	1	P	Power Input
A	2	485+	485+
B	3	485-	485-
GND	4	P	GND

Model	TC070C22U00				DWIN Technology			
Drawing	A 4	Drawn	DWIN	Date	200513			
Scale	1:1	Review						
Unit	MM	Approve						

**Record of Revision**

Version	Revise Date	Content	Editor
00	2023-02-24	First Edition	YML

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:

Customer service Tel: +86-400-018-9008

Customer service E-mail: dwinhmi@dwin.com.cn

Website: www.dwin-global.com

DWIN Developer Forum: <https://forums.dwin-global.com/index.php/forums>

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

Installation Schematic

