

TC040C11U04

4.0 Inches, 480xRGBx480, 16.7M Colors, IPS screen, Thermostat



- **Display**

Item	Parameter	Description
Color	16.7M.(16777216) colors	24 bit color 8R8G8B
Active Area(A.A.)	71.86mm (W)*67.96mm (H)	480*480
Resolution	480 * 480	Support 0°/90°/180°/270°rotated display
Backlight	LED	≥10000H(Continuous working with maximum brightness, time of brightness halves)
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	Condition	Min	Typ.	Max	Unit
Power Voltage	-	110	220	230	VAC

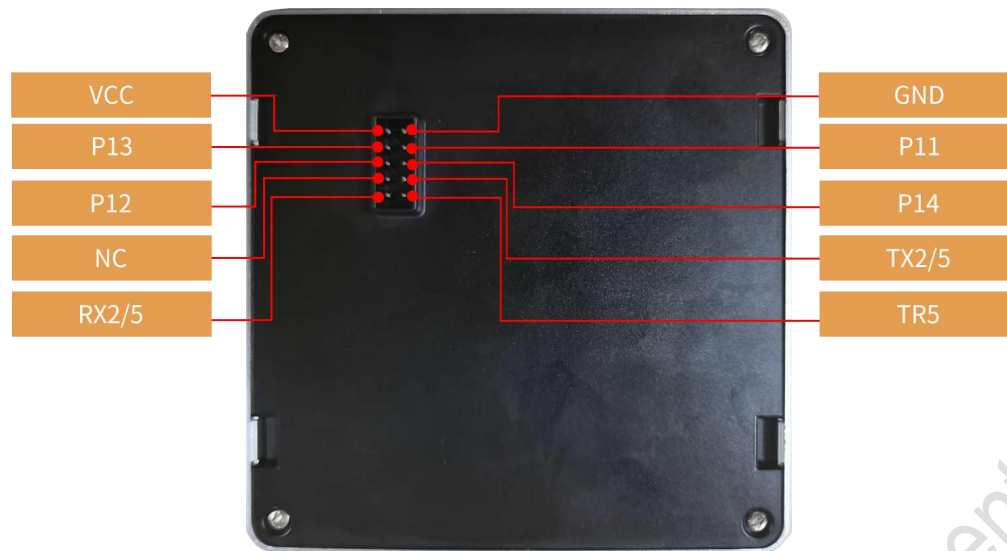
- **Reliability Test**

Item	Condition	Min	Typ.	Max	Unit
Working Temperature	60%RH at 220VAC Voltage	0	25	50	℃
Storage Temperature	-	-30	25	70	℃
Working Humidity	25℃	10%	60%	90%	RH
Protective Paint	-	-	None	-	-

● Interface Description



Item	Parameter	Corresponding Internal Pin
B	IO	485_TX
A		485_RX
Open	O	P1.3 electric relay1 valve (IO3)
Close		
Low	O	P1.1 electric relay 2 low (IO1)
Mid	O	P1.4 electric relay 3 middle (IO4)
High	O	P1.2 electric relay 4 high (IO2)
N	P	Zero line and live line
L		
NC	—	Undefined



Item	Parameter	Description
1	VCC	Power input, 5V.
2	GND	GND
3	P13	P1.3 electric relay1 valve(IO3)
4	P11	P1.1 electric relay 2 low(IO1)
5	P12	P1.2 electric relay 4 high(IO2)
6	P14	P1.4 electric relay 3 middle(IO4)
7	NC	Undefined
8	TX2/5	UART2 and UART5 transmit data. (TX2 and TX5, logic AND)
9	RX2/5	UART2 and UART5 receive data. (RX2 and RX5 shorted)
10	TR5	Output for RS485 transmit/receive switching (TR5 and UART 2 self-transmit/receive control pin, logic OR)

● Interface Detailed Value

Item	Condition	Min	Typ.	Max	Unit
Baud Rate	TA Standard	7841	-	115200	bps
	DGUS II Standard	239	-	115200	bps
Output Voltage (TXD)	Output 1, Iout = 1mA	3.0	3.2	-	V
	Output 0, Iout = -1mA	-	0.1	0.2	V
Input Voltage (RXD)	Input 1, Iin = 1mA	2.0	3.3	5.0	V
	Input 0, Iin = -1mA	-0.7	0.0	1.3	V
Interface	RS485				
Socket	5.08mm Spacing connection terminal				
USB	None				
SD Card Slot	Yes (SDHC/FAT32 file format)				

- **Memory**

Item	Typ.	Features	Typ.	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

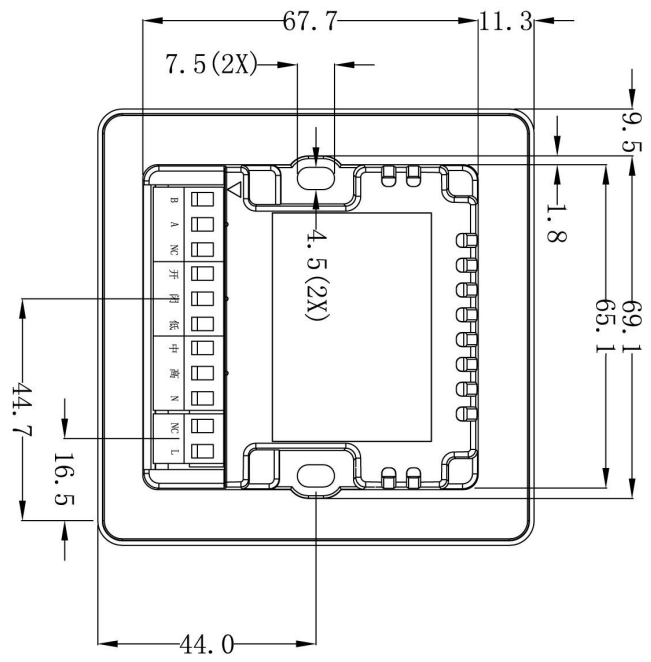
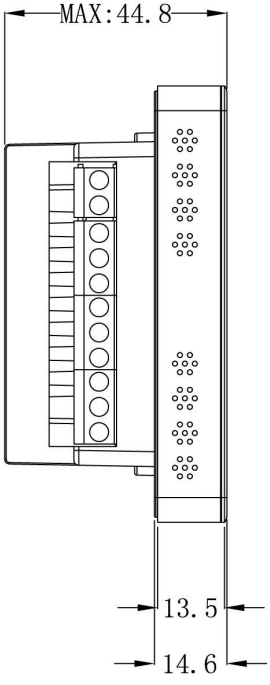
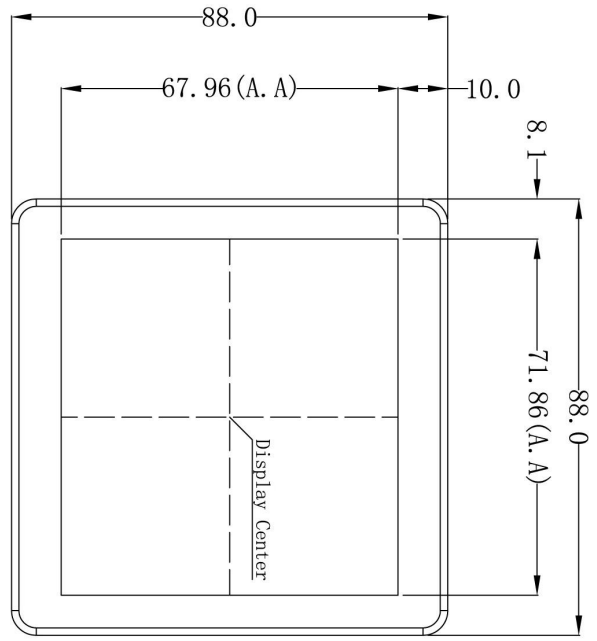
- **UI & Peripheral**

UI&Peripherals	
UI Version	TA / DGUS II (DGUS II pre-installed)
Peripherals	Capacitive touch screen, Built-in Speaker, Built-in Temperature sensor

- **Packing Capacity & Dimension**

Dimension				
Dimension	88.0 (W) * 88.0 (H) * 44.8 (T)mm			
Net Weight	220g			
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)	1	4	4
Carton4:	450mm(L)*350mm(W)*300mm(H)	-	-	-
Carton5:	600mm(L)*450mm(W)*300mm(H)	2	20	40

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



Pin	Definition	Type	Description
B	1	485-	485-
A	2	485+	485+
NC	3	-	Not Defined
O	4	0	Normally Op AC Output
C	5	0	Normally Close AC Output
L	6	0	AC Output
M	7	0	AC Output
H	8	0	AC Output
N	9	P	Power Input
NC	10	-	Not Defined
L	11	P	Power Input

Unmarked Tolerance is +/-0.3mm
Active area is marked in Dash lines

Model	TC040C11U04			DWIN Technologies
Drawing	A 4	Drawn	DWIN	
Scale		Review		
Unit	MM	Approve		Date

Record of Revision

Version	Revise Date	Content	Editor
00	2023-01-09	First Edition	YML
01	2023-07-20	Add Pinout Definition	YML

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