

DMT80480T050_36WTC



System Hardware

Properties	Parameters
Motherboard Level	Industrial-grade
CPU	T113, Dual-core ARM CortexTM-A7 1.0GHz Processor
OS	Linux 5.4
RAM	128MBytes DDR3
Storage	8GBytes eMMC

Display Parameters

Properties	Parameters	Description
Size	5.0 inch	-
LCD Type	IPS, TFT LCD	-
Viewing Angle	85°/85°/85°/85°	Wide viewing angle, high contrast, and good color reproduction
Active Area (AA)	108.80mm(W)x65.60mm(H)	-
Resolution	800x480	-
Backlight Service Life	>20000 Hrs	Backlight service life refers to the period the LED backlight operates under test conditions until brightness decreases to 50% of the initial level.
Brightness	300nit	100-level brightness adjustment (Flickering may occur at 1%-30% of max brightness; not recommended for use in this range)
Note: Use dynamic screen saver to prevent afterimages from prolonged fixed page display.		

Touch Parameter

Properties	Parameters
Touch Type	Capacitive touch panel
Structure	G+G structure with tempered glass surface

Power Supply

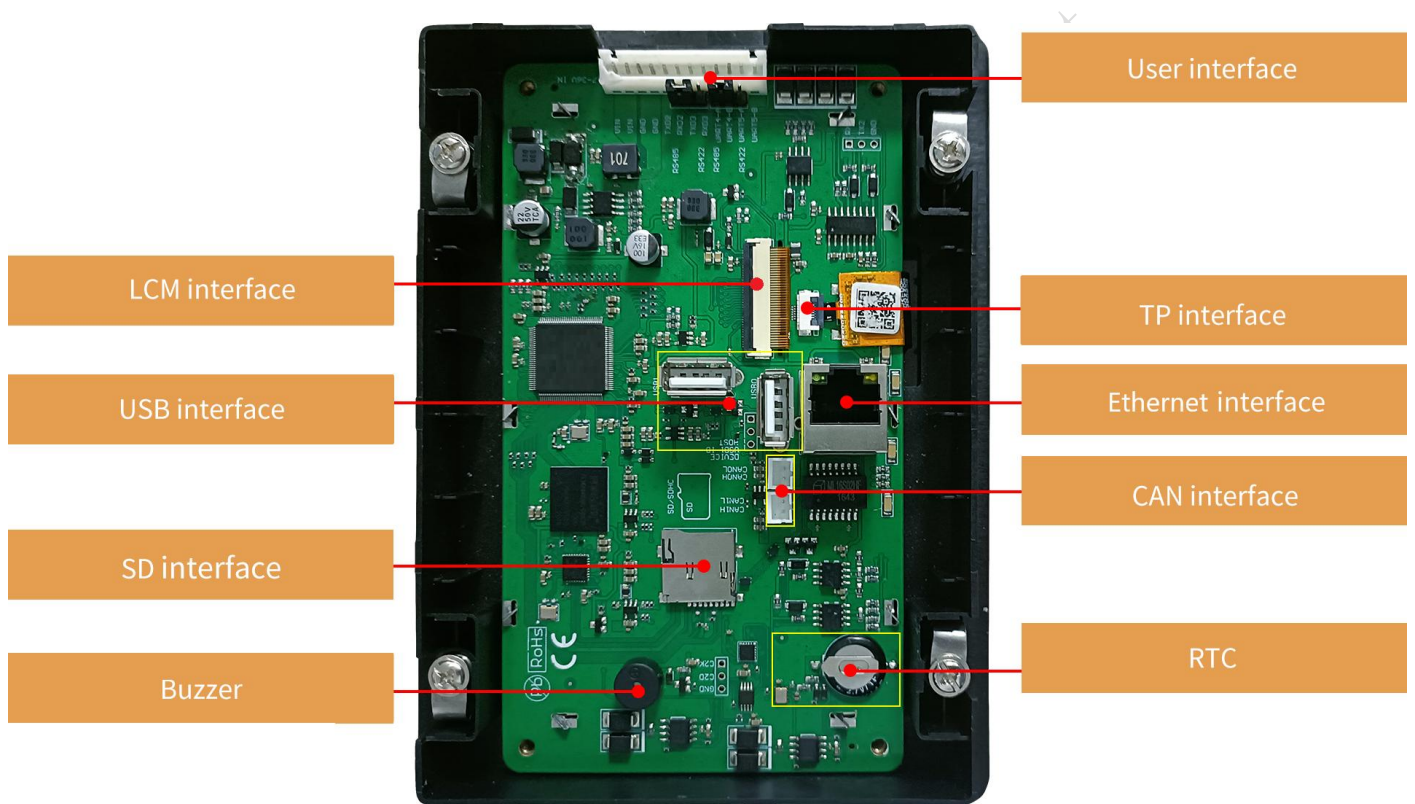
Properties	Min	Typ	Max	Unit
Power Voltage	9.0	12.0	36.0	V
Recommended power supply:12V 1A DC.				

Environment & Reliability Test

Properties	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	°C
Storage Temperature	-	-30	25	80	°C
Working Humidity	25°C	10%	60%	90%	RH
Conformal Coating	Yes				
ESD	Air discharge ±8KV				
EFT	Group pulse interference ±2KV				

● Peripheral and Interfaces

参数 Properties	Description
User Interface	12Pin_2.54mm socket
COM	RS232*2 (COM 2 & COM3), RS485*2 (COM4 & COM5)
CAN Interface	2Pin_2.0mm interface (CAN0, CAN1)
USB	USB*2 (HOST)
SD card	Max. 64G
Ethernet	10/100Mbps
RTC	Accuracy: $\pm 20\text{ppm}$ @25℃
Buzzer	3V passive buzzer

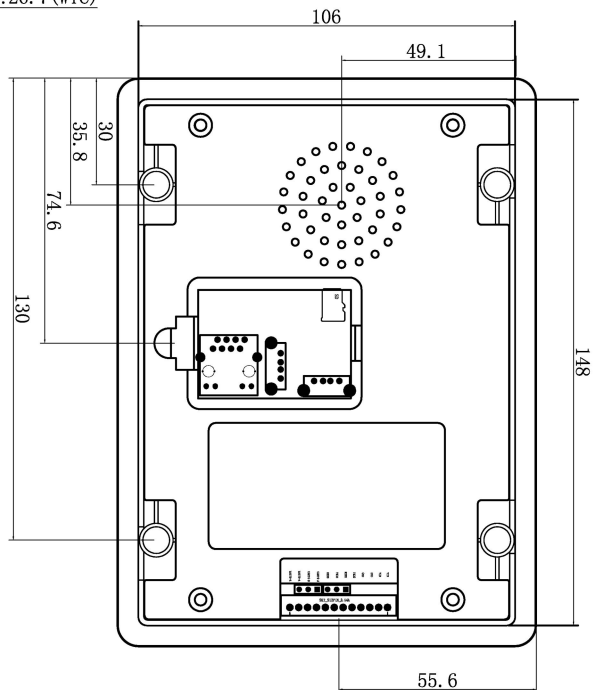
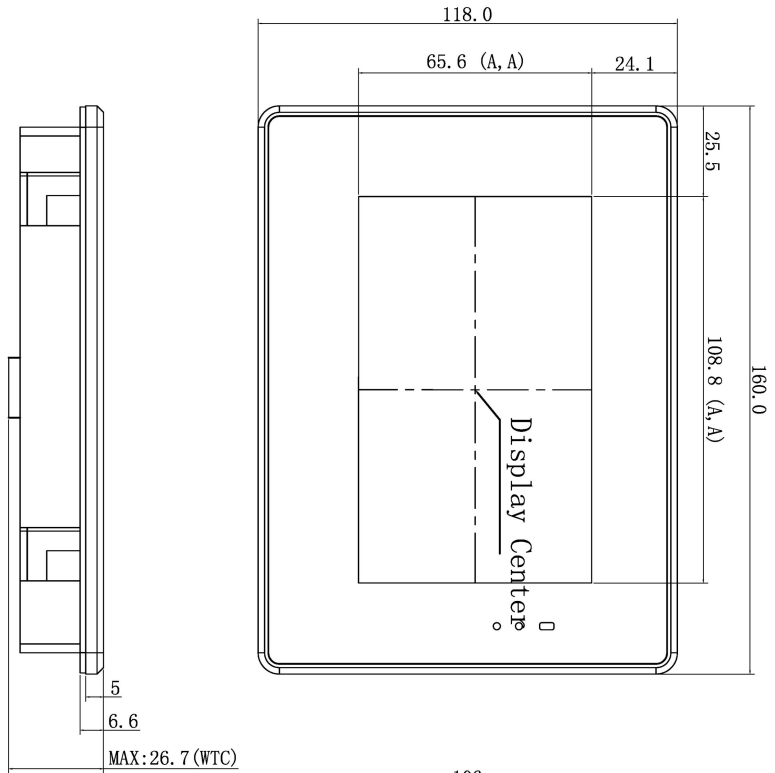


● Development Platform

Development	
QT	QtCreator2.7.2 and above

● Packing Capacity & Dimension

Dimension				
Dimension	160.00(W)x118.00(H)x26.70(T)mm			
Net Weight	340g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity (Pcs)
Carton1:	220mm(L)×160mm(W)×47mm	-	-	-
Carton2:	250mm(L)×200mm(W)×80mm	2	1	2
Carton3:	320mm(L)×270mm(W)×80mm	-	-	-
Carton4:	450mm(L)×350mm(W)×300mm	-	-	-
Carton5:	600mm(L)×450mm(W)×300mm	1	30	30



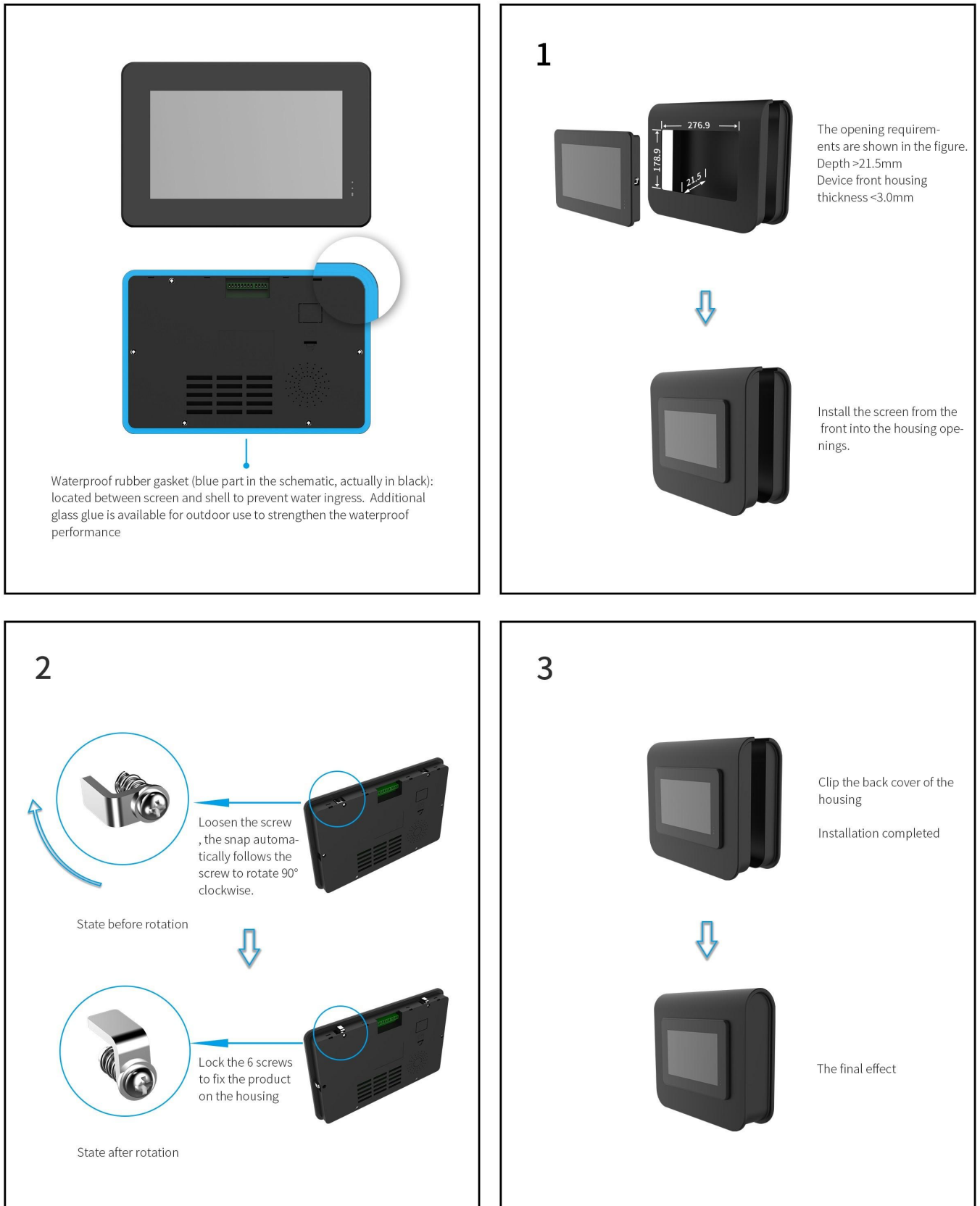
Definition	Pin#	Type	Description
VIN	1, 2	P	Power Input
GND	3, 4	P	GND
TXD2	5	0	UART 2 DOUT
RXD2	6	I	UART 2 DIN
TXD3	7	0	UART 3 DOUT
RXD3	8	I	UART 3 DIN
UART4-A	9	A	RS485A
UART4-B	10	B	RS485B
UART5-A	11	A	RS485A
UART5-B	12	B	RS485B

1. Location hole is used as position reference
2. Unmarked Tolerance is $\pm 0.3\text{mm}$

Active area is marked in Dash lines

Model	DMT80480T050-36WTC				DWIN Technology			
Drawing	A 4	Drawn	DWIN	Date				
Scale		Review		Date				
Unit	MM	Approval		Date				

Installation Schematic



- **Revision records**

Rev	Revise Date	Content	Editor
00	2023-08-07	First Edition	YML
01	2025-09-02	Modify Power Voltage	Chen Xian

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