DMT80480T050_36WTC





Features:

- Industrial Linux intelligent display terminal based on T113, running Linux5.4 operating system.
- 5.0-inch, 800*480 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, Capacitive touch, with shell.
- Adopt QT environment for secondary development.
- Available for multi-language, vector font library, picture library, video library and audio library.
- Compatible with network cable connection with PC to download update project.
- Available for RS232, RS485, CAN and Ethernet port to connect and communicate with external devices.
- Anti-UV and anti-glare



Master Control Parameters

Properties	Parameters
Motherboard Level	Industrial
СРИ	Dual-core ARM CortexTM-A7 Processor
os	Linux 5.4
FLASH	8GBytes EMMC
RAM	128MBytes DDR3

Display Parameters

Properties	Parameters	Description		
Color	16.7M (16777216) colors	24 bit color 8R8G8B		
Panel Type	IPS	IPS process, TFT LCM with wide viewing angle		
Viewing Angle	85/85/85/85 (L/R/U/D)	Best view: symmetrical		
Active Area (A.A.)	108.8mm (W)*65.6mm (H)			
Resolution	800*480	Available for 0°/90°/180°/270°rotated display		
Backlight	LED	≥30000H(time of the brightness decaying to 50% on the condition of continuous working with the maximum brightness)		
Brightness	300nit	100 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum, which may lead to LCD flicker.)		

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

Voltage & Current

Properties	Properties Conditions		Тур.	Max	Unit
Power Voltage	0,0	8.0	12.0	23	V
Operation Current	VCC = +12V, Backlight on	-	200	-	mA
	VCC = +12V, Backlight off	-	100	-	mA

Recommended power supply: 12V 0.5A DC

Reliability Test

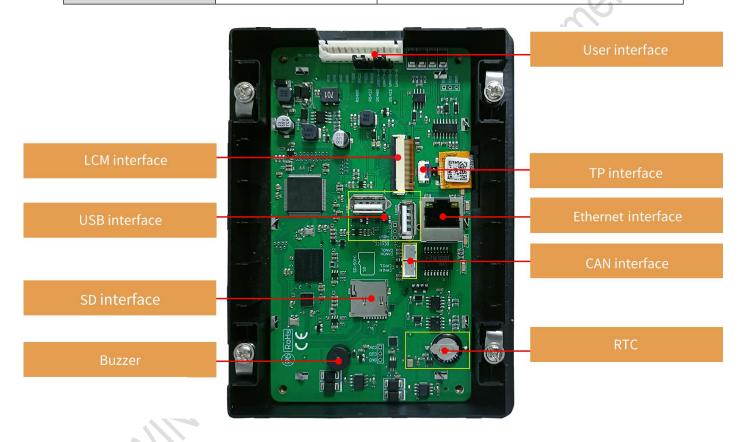
Properties	Properties Conditions		Min Typ.		Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	$^{\circ}$
Storage Temperature	-	-30	25	80	$^{\circ}$
Working Humidity	ng Humidity 25℃		60%	90%	RH
Conformal Coating	Yes				
ESD	Air discharge±8KV				
EFT	Group pulse interference ±2KV				

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Peripheral and Interfaces

Properties	Parameters	Description		
Interface	2-way RS232	UART2 & UART3		
interiace	2-way RS485	UART4 & UART5		
CAN Interface	2-way	2Pin_2.0mminterface (CAN0, CAN1)		
USB Interface	2-way	HOST*2		
SD Card Interface	1-way	Drawer type card slot(Max 64G)		
Ethernet Interface	1-way	10/100Mbps		
RTC	Built-in	Built-in Super-capacitor RTC. Accuracy: ±20ppm @25℃		
Buzzer	Built-in	3V passive buzzer		



Disclaimer:

There are multiple parallel raw materials coexisting to guarantee the stable supply. If customers have particular raw material preferences or requirements, please contact the sales personnel.

Interface Parameters

Properties	Conditions	Min	Тур.	Max	Unit
Baud Rate	User-defined	3150	115200	3225600	bps
Output Voltage (TXD)	Output 1	-	-5.0	-3.0	V
	Output 0	3.0	5.0	-	V
Input Voltage (RXD)	Input 1	-15.0	-5.0	-	V
	Input 0	-	5.0	15.0	V
Interface	RS232*2 RS485*2				
Socket	12Pin_2.54mm				

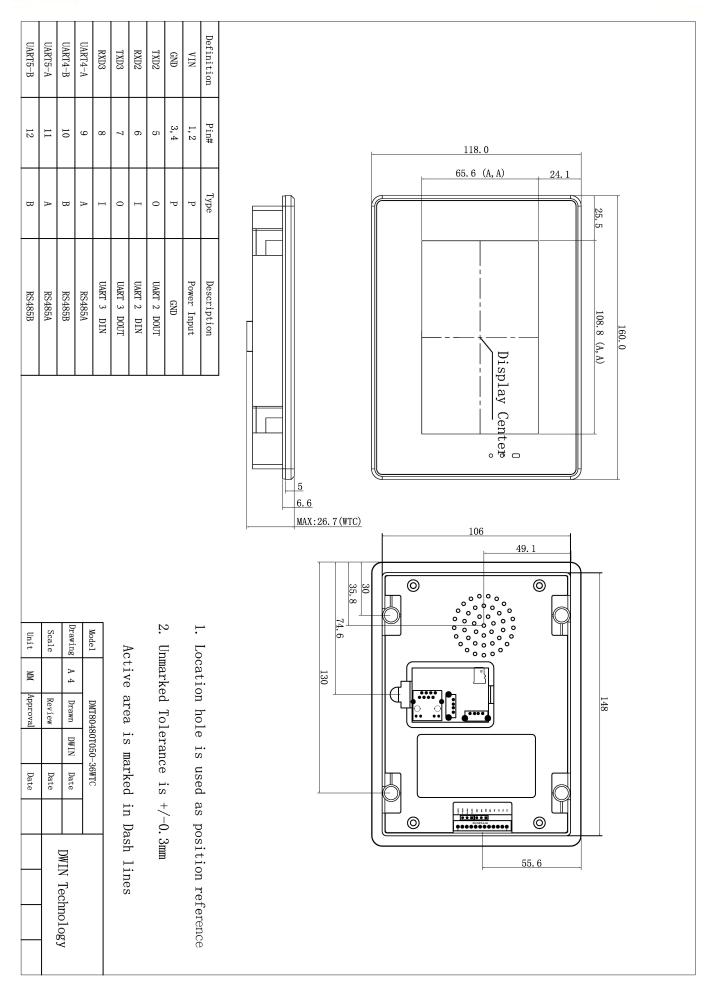
Packing Capacity & Dimension

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	Dimension					
Dimension	160.0 (W) *118.0(H)*26.7(T)mm					
Net Weight	340g					
	Packing Capacity					
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)		
Carton1:	220(L)*160(W)*47(H)mm	10	1	1		
Carton2:	250(L)*200(W)*80(H)mm 1 2 2			2		
Carton3:	320(L)*270(W)*80(H)mm 2		2	4		
Carton4:	450(L)*350(W)*300(H)mm 1		20	20		
Carton5:	600(L)*450(W)*300(H)mm 1 34 34					

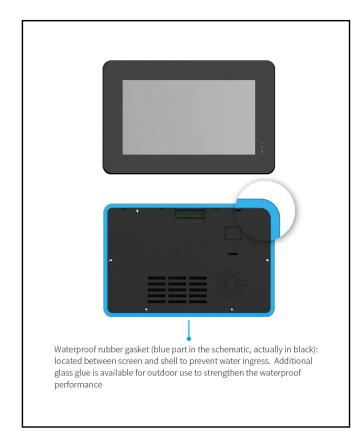
Disclaimer: The product design is subject to alternation and improvement without prior notice.

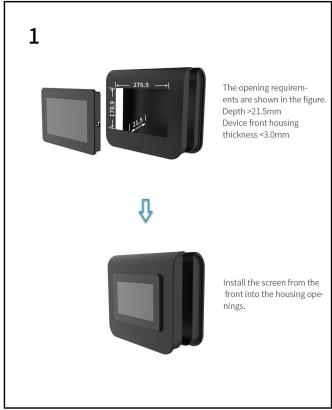
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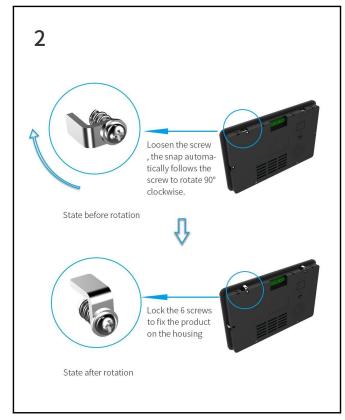
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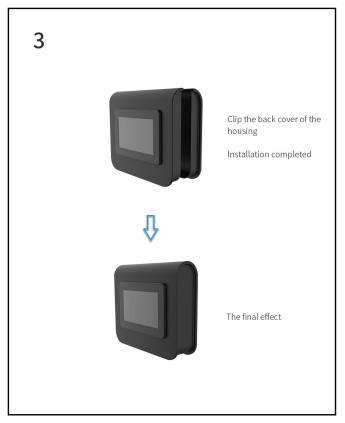


Installation Schematic











Revision records

Rev	Revise Date	Content	Editor
00	2023-08-07	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:

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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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DWIN reserves the right to make any changes to product designs without prior notice.

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