

# 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

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#### Master Control Parameters

Properties	Parameters	
Motherboard Level	Industrial	
CPU	Dual-core ARM CortexTM-A7 Processor Linux 5.4	
OS		
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, TF		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	Conditions		Тур.	Мах	Unit
Power Voltage	~O,	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

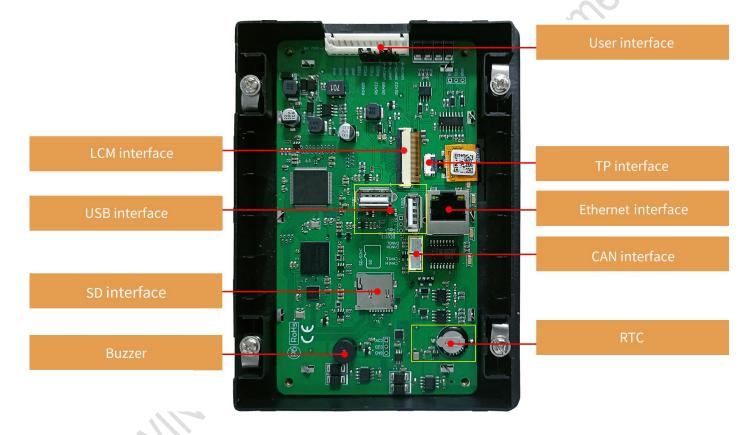
#### • Reliability Test

Properties	Conditions	Min	Тур.	Мах	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	°C
Storage Temperature			25	80	°C
Working Humidity	<b>25</b> ℃	10%	60%	90%	RH
Conformal Coating	Yes				
ESD	Air discharge±8KV				
EFT	Group pulse interference $\pm 2$ KV				
Protective Level	IP65 (Front)				

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#### Peripheral and Interfaces

Properties	Parameters	Description
Interface	2-way RS232	UART2 & UART3
Interface	2-way RS485	UART4 & UART5
CAN Interface	2-way 2Pin_2.0mminterface (CAN0, CAN	
USB Interface	USB Interface 2-way HO	
SD Card Interface	1-way	Drawer type card slot(Max 64G)
Ethernet Interface	1-way	10/100Mbps
RTC	Built-in	Super-capacitor RTC. Accuracy: $\pm 20$ ppm @25 $^\circ$ C
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

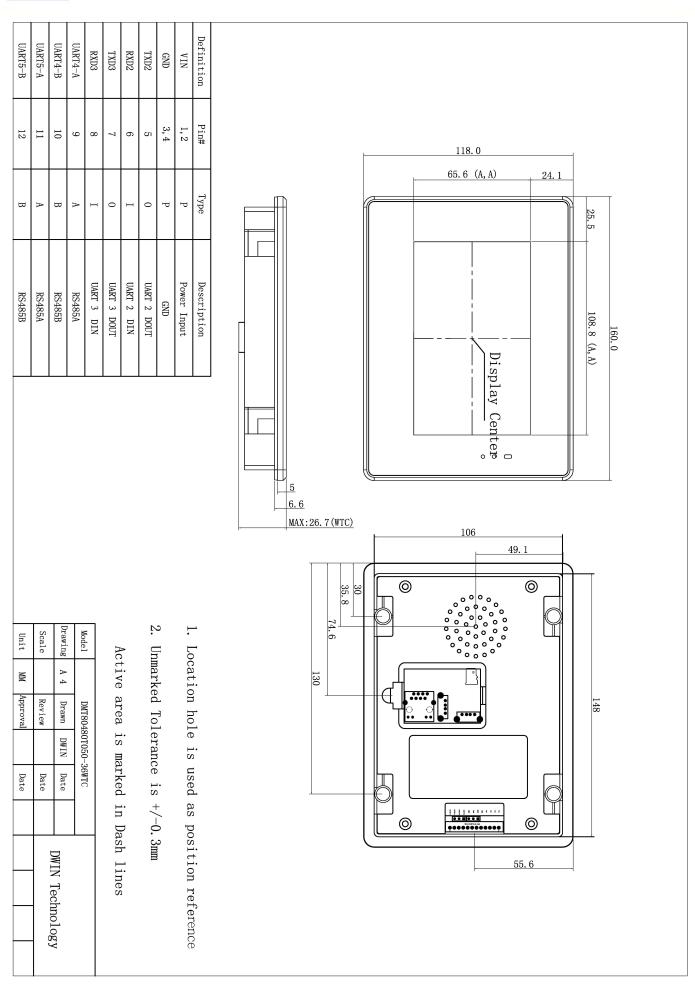
Properties	Conditions	Min	Тур.	Мах	Unit
Baud Rate	User-defined	3150	115200	3225600	bps
Output Voltage	Output 1	-	-5.0	-3.0	V
(TXD)	Output 0	3.0	5.0	-	V
Input Voltage	Input 1	-15.0	-5.0	-	V
(RXD)	Input 0	-	5.0	15.0	V
Interface	RS232*2 RS485*2				
Socket	12Pin_2.54mm				

# • Packing Capacity & Dimension

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

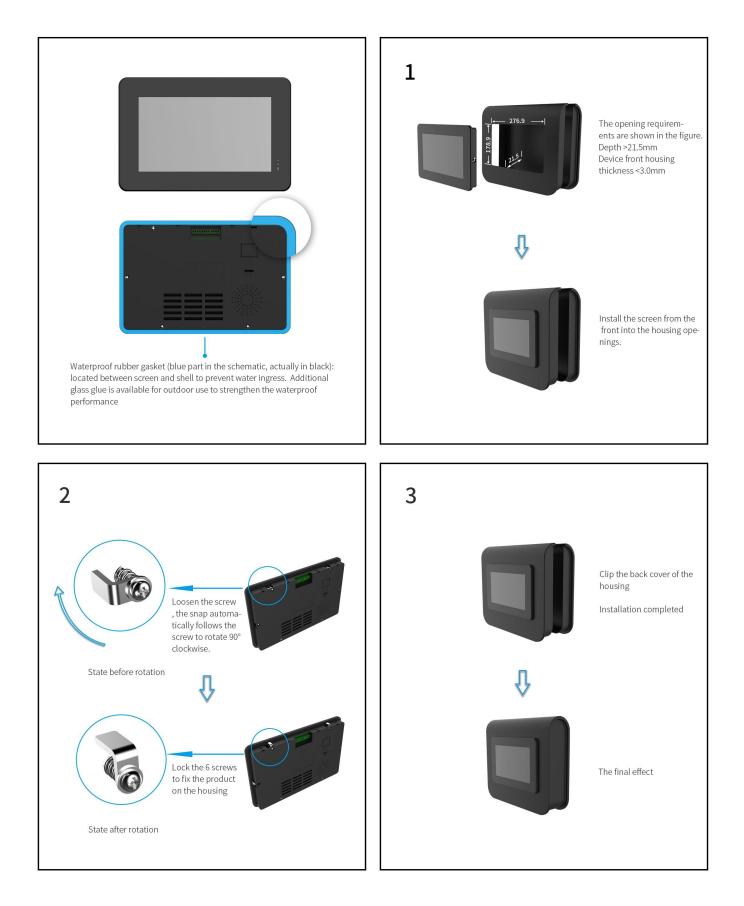
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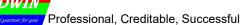
Disclaimer: The product design is subject to alternation and improvement without prior notice.



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# Installation Schematic





Revision records

Rev	Revise Date	Content	Editor	
00	2023-08-07	First Edition	YML	

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

# Important Disclaimer

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