DMT80480T050_39WTR





Features:

- Industrial Linux intelligent display terminal based on T113, running Linux 5.4 operating system.
- 5.0-inch, 800*480 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, resistive touch,
 with shell.
- Adopt DWIN HMI configuration software for secondary development.
- Integrated PLC communication, alarm, sampling, formula and other database management, interface customization, macro command and other functions.
- 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

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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)	. (5)	
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	250nit	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	Min	Тур.	Max	Unit
Power Voltage	<u> </u>	7.0	12.0	23	V
Operation Current	VCC = +12V, Backlight on	-	270	-	mA
	VCC = +12V, Backlight off - 120 - mA				
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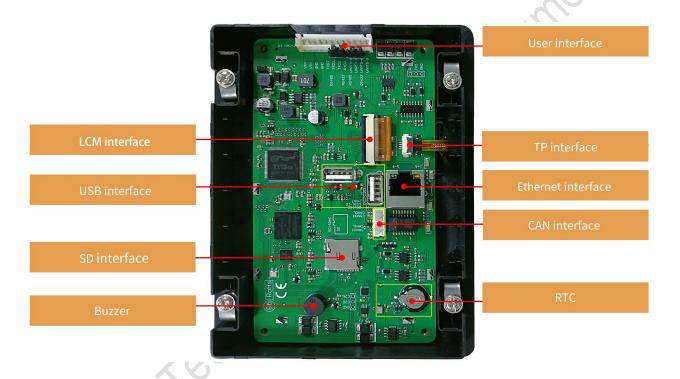
Recommended power supply: 12V 0.5A DC

Reliability Test

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

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	Super-capacitor RTC. Accuracy: ± 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.	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				

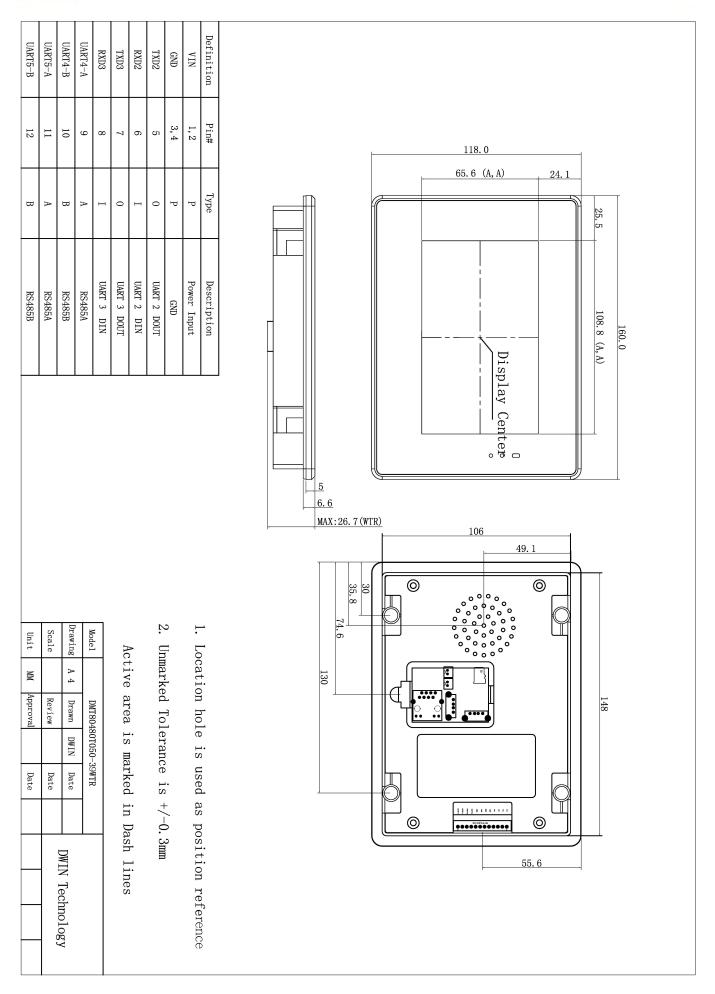
Packing Capacity & Dimension

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	Dimension					
Dimension	160.0 (W) *118.0(H)*26.7(T)mm					
Net Weight	320g					
	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		
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 3			34		

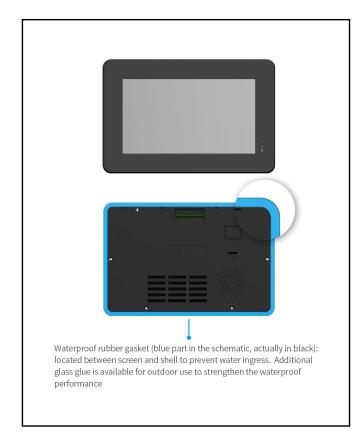
Disclaimer: The product design is subject to alternation and improvement without prior notice.

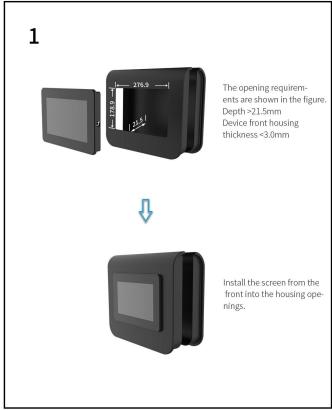
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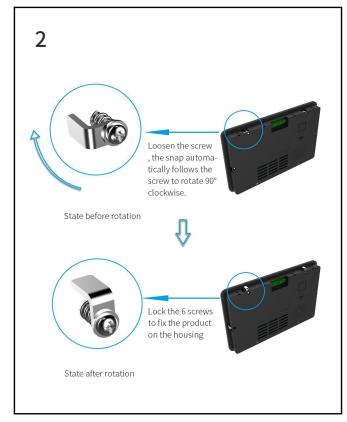
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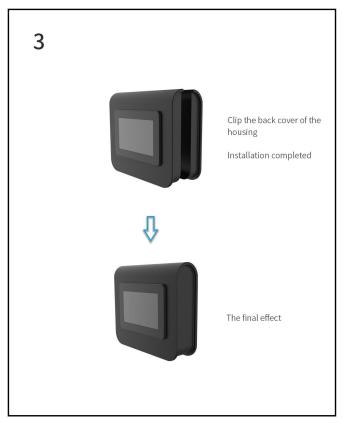


Installation Schematic











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!

Important Disclaimer

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

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