

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
CPU	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 IPS process, TFT LCM with wide viewing angle Best view: symmetrical -			
Panel Type	IPS				
Viewing Angle	85/85/85/85 (L/R/U/D)				
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	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				
Or and the Original Action	VCC = +12V, Backlight on	-	270	-	mA				
Operation Current	VCC = +12V, Backlight off	-	120	-	mA				
Recommended power supply: 12V 0.54 DC									

Recommended power supply: 12V 0.5A DC

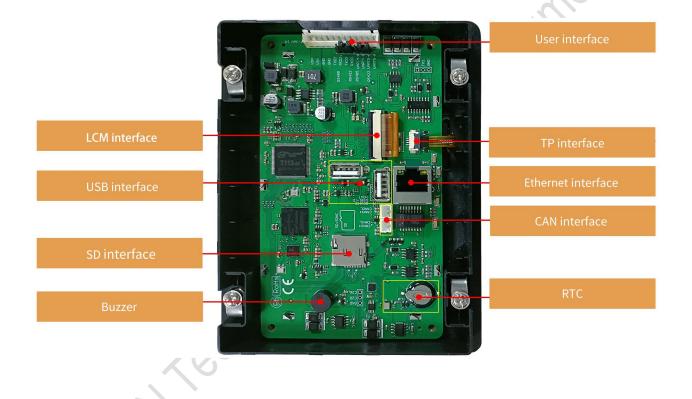
• Reliability Test

Properties	Conditions	Min	Тур.	Мах	Unit		
Working Temperature	60%RH at 12V voltage	-20	25	70	°C		
Storage Temperature	-	-30	25	80	°C		
Working Humidity	25 ℃	10%	60%	90%	RH		
Conformal Coating	Yes						
ESD	Air discharge \pm 8KV						
EFT	Group pulse interference ±2KV IP65 (Front)						
Protective Level							

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• Peripheral and Interfaces

Properties	Parameters	Description		
luterfeet	2-way RS232	UART2 & UART3		
Interface	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.

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• 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					
Socket					

• Packing Capacity & Dimension

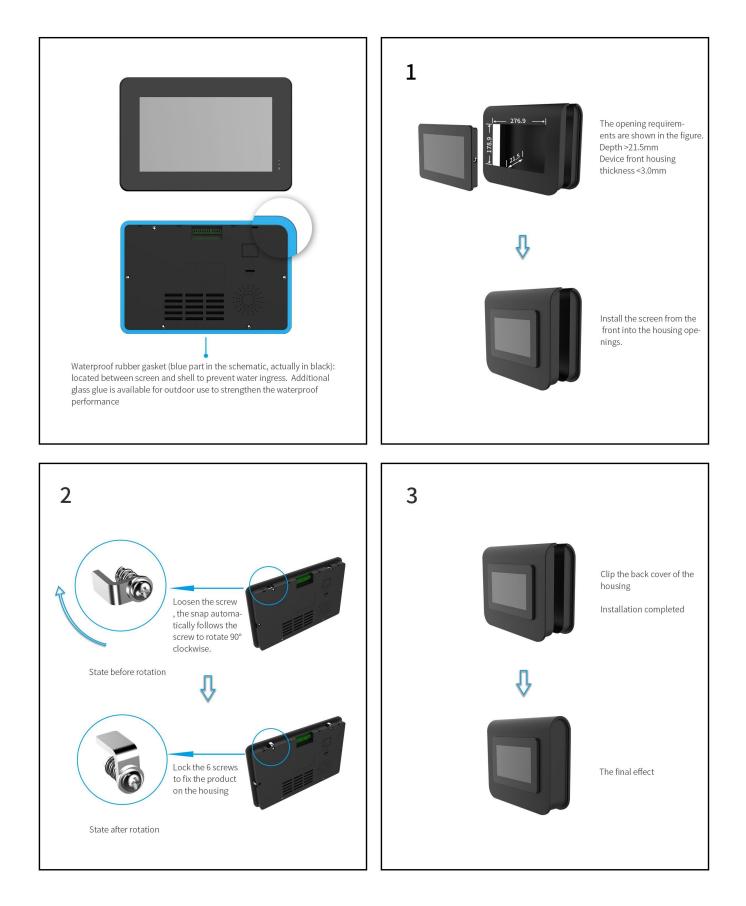
Dimension									
Dimension	Dimension 160.0 (W) *118.0(H)*26.7(T)mm								
Net Weight		320g							
	Packing Capa	acity							
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)					
Carton1:	220(L)*160(W)*47(H)mm	· ·	1	1					
Carton2:	250(L)*200(W)*80(H)mm	T	2	2					
Carton3:	Carton3: 320(L)*270(W)*80(H)mm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

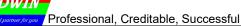
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Disclaimer: The product design is subject to alternation and improvement without prior notice.

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UART5-B	UART5-A	UART4-B	UART4-A	RXD3	TXD3	RXD2	TXD2	GND	VIN	Definition	
12	11	10	9	8	7	6	5	3,4	1, 2	Pin#	118.0
В	А	в	А	Ι	0	Ι	0	Р	Р	Туре	65. 6 (A, A) 24. 1
RS485B	RS485A	RS485B	RS485A	UART 3 DIN	UART 3 DOUT	UART 2 DIN	UART 2 DOUT	GND	Power Input	Description	
											Display Center
											MAX: 26. 7 (WTR) 106
Unit MM Approval Date	Scale Review Date	Drawing A 4 Drawn DWIN Date	Model DMT80480T050-39WTR		ACTIVE area is marked		2. Unmarked loterance is		1. LOCATION NOIE IS USED		
		DWIN Technology			d in Jasn Lines	•	s +/-0.3mm		1 as position reference		

Installation Schematic





Revision records

Rev	Revise Date	Revise Date Content				
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:

Customer service Tel: +86-400-018-9008

Customer service E-mail: dwinhmi@dwin.com.cn

Website: www.dwin-global.com

DWIN Developer Forum: https://forums.dwin-global.com/index.php/forums

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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