

DMT80480T050_36WTR





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, resistive 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
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	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.	Мах	Unit	
Power Voltage	~O,	7.0	12.0	23	V	
0	VCC = +12V, Backlight on	-	270	-	mA	
Operation Current	VCC = +12V, Backlight off	-	120	-	mA	
			•		•	

Recommended power supply: 12V 0.5A DC

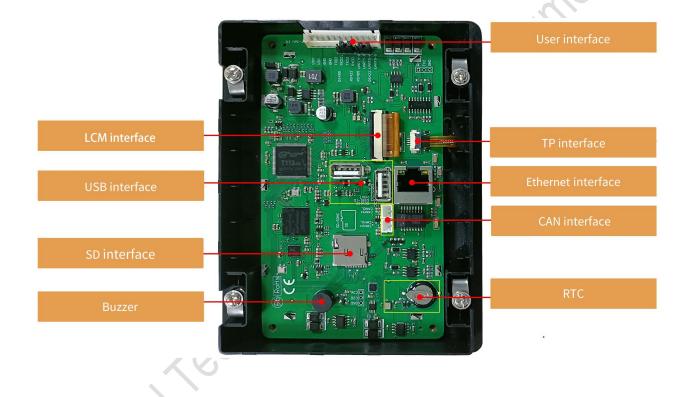
• Reliability Test

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

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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, 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 $^\circ\!\!\mathbb{C}$
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

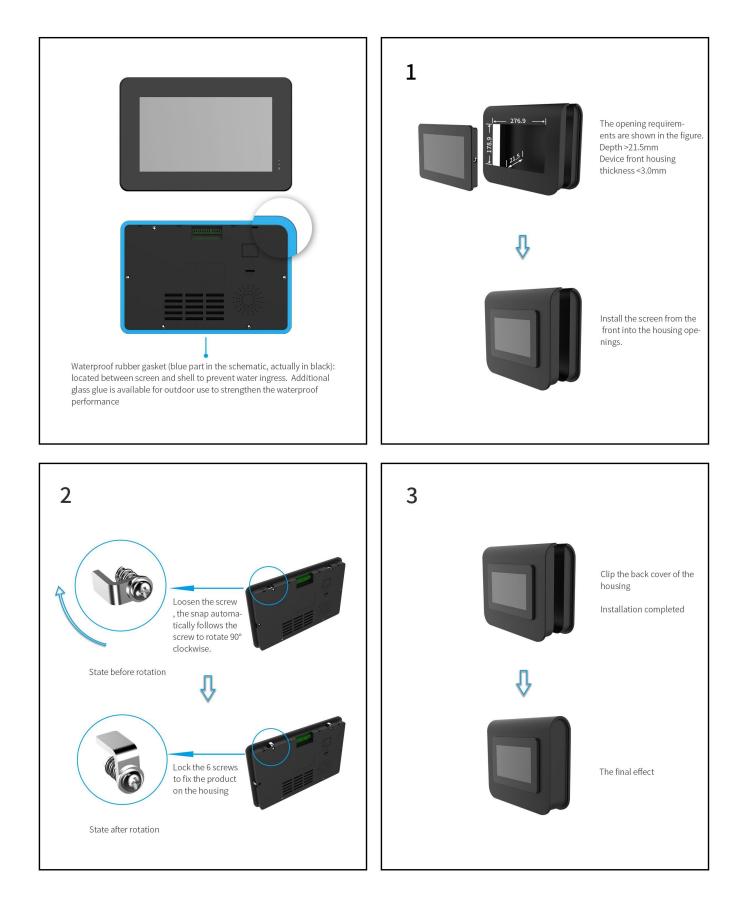
Dimension									
Dimension	Dimension 160.0 (W) *118.0(H)*26.7(T)mm								
Net Weight	320g								
	Packing Capa	acity							
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)					
Carton1:	220(L)*160(W)*47(H)mm	· ·	1	1					
Carton2:	250(L)*200(W)*80(H)mm	T	2	2					
Carton3:	320(L)*270(W)*80(H)mm	2	2	4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

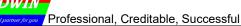
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Disclaimer: The product design is subject to alternation and improvement without prior notice.

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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	9	5	3, 4	1, 2	Pin#
В	A	В	A	Ι	0	Ι	0	Р	Р	Туре
RS485B	RS485A	RS485B	RS485A	UART 3 DIN	UART 3 DOUT	UART 2 DIN	UART 2 DOUT	GND	Power Input	Description
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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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