

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

DWIN alpanner for your Professional, Creditable, Successful

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

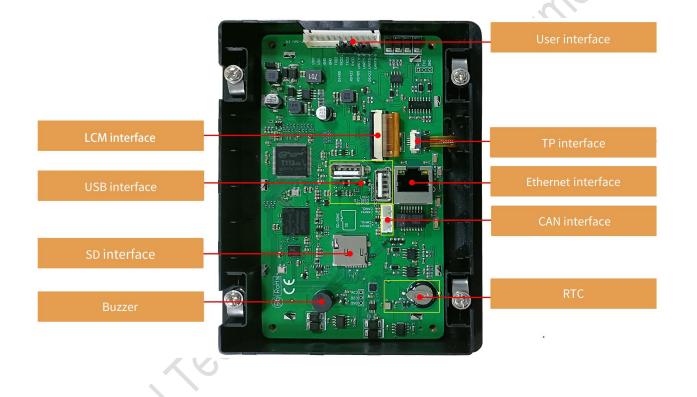
• Reliability Test

| 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 | | | | | | | | |

DWIN In particular of the professional, Creditable, Successful

• 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.

DWIN Ipanne for you Professional, Creditable, Successful

• 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

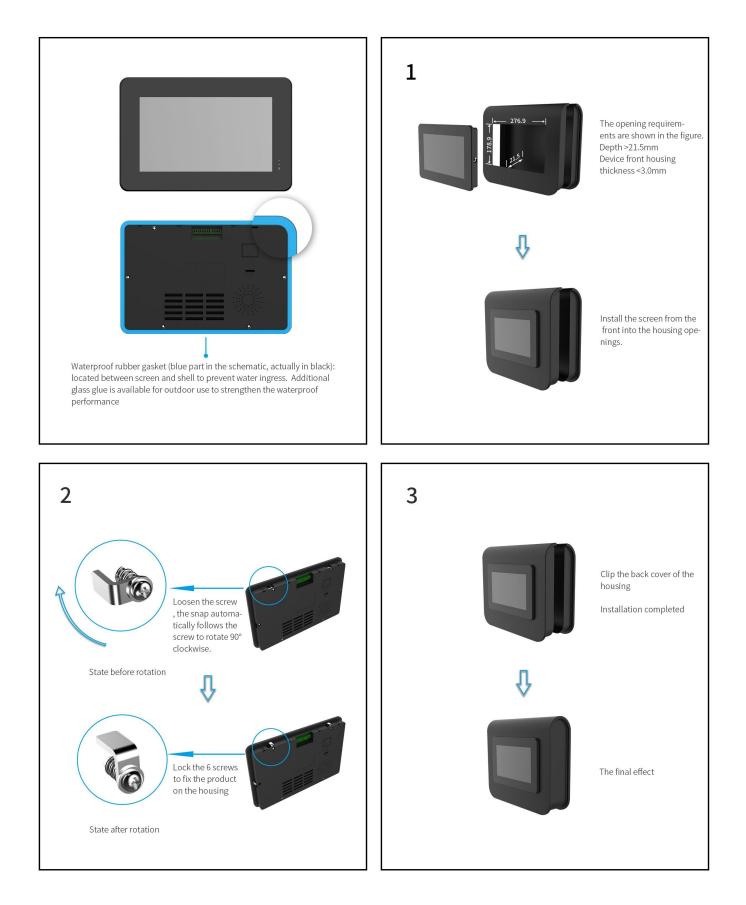
| Dimension | | | | | | | | | |
|------------|---|-------|----------------|---------------|--|--|--|--|--|
| Dimension | Dimension 160.0 (W) *118.0(H)*26.7(T)mm | | | | | | | | |
| Net Weight | 320g | | | | | | | | |
| | Packing Capa | acity | | | | | | | |
| Model | Size | Layer | Quantity/Layer | Quantity(Pcs) | | | | | |
| 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 | | | | | | | | |

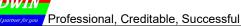
ONIN COMOLO -

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

| _ | - | | | | | | | | | |
|------------------|--------------|------------------------|---------|------------|----------------------|------------|-------------------------|------|----------------------|--------------------|
| 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 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Unit MM Approval | Scale Review | Drawing A 4 Drawn DWIN | DMT8048 | | ACLIVE area is ma | • | 2. Unmarked IOIerance | | ι, μυσαιτυπ πυτε τε | I post ion hold in |
| Date | Date | Date DWIN T | 56WTR | | marked in pash lines | • | ë 1S ⊤/− ∪. 3000 | | as posicion relation | |
| | - | DWIN Technology | | | õ | I | | | Leterence | soformon of |

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:

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.

Customers should ensure strictly adhering to all the relevant standards and requirements during the product application process, including but not limited to functional safety, information security, and regulatory provisions. DWIN shall not bear any joint and several liability for any consequences that may arise from customers' adoption of DWIN products. In particular, for risks that may lead to significant property losses, environmental hazards, personal injury, or even death, especially in high-risk application areas such as military applications, flammable and explosive places, and life-saving medical equipment, customers should independently assess the risks and take corresponding preventive and protective measures. DWIN shall not bear any relevant responsibility.