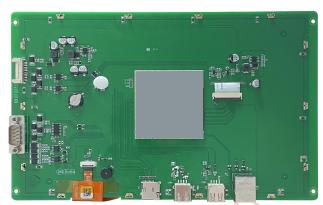
# DMT12800T101\_36WTC





#### Features:

- Industrial Linux intelligent display terminal based on T113, running Linux5.4 operating system.
- 10.1-inch, 1280\*800 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, capacitive touch.
- 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, RS422, CAN and Ethernet port to connect and communicate with external devices.

### Master Control Parameters

Properties	Parameters		
Motherboard Level	Industrial		
СРИ	Dual-core ARM CortexTM-A7 Processor		
os	Linux5.4		
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.)	216.96mm(W)*135.60mm (H)	- (1)
View Area (V.A.)	217.96mm(W)*136.60mm (H)	- 000
Resolution	1280*800	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		12.0	12.0	23	V
Operation Current	VCC = +12V, Backlight on	-	440	-	mA
	VCC = +12V, Backlight off	-	140	-	mA

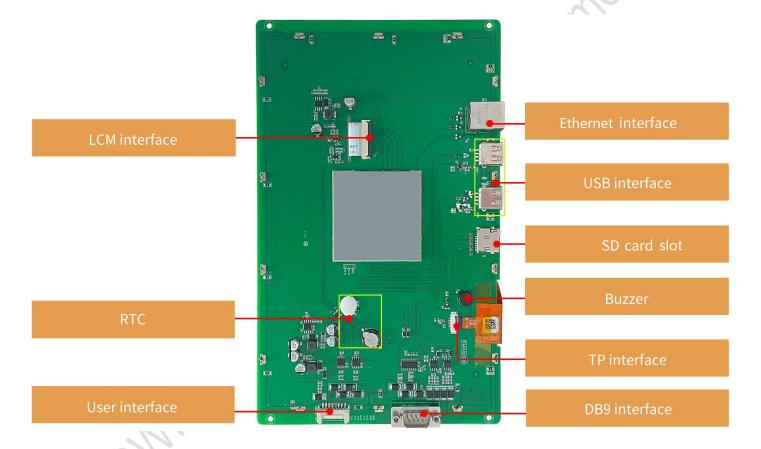
Recommended power supply: 12V 1A DC

### Reliability Test

Properties	S Conditions		Тур.	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	$^{\circ}$
Storage Temperature	-	-30	25	80	$^{\circ}$
Working Humidity 25 <sup>°</sup> C		10%	60%	90%	RH
Conformal Coating	Yes				
ESD	Air discharge $\pm 8$ KV; Contact discharge $\pm 6$ KV				
EFT	Group pulse interference ±2KV				

### Peripheral and Interfaces

Properties	Parameters	Description		
	2-way RS232	UART2 & UART3		
Interface	1-way RS422	A, B,Y,Z		
	2-way CAN	CAN1 & CAN2		
USB Interface	2-way	HOST*2		
SD Card Slot	1-way	Drawer type card slot(Max 64G)		
Ethernet	1-way	10/100Mbps		
RTC	Built-in	Super-capacitor RTC. Accuracy: ±20ppm @25℃		
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.

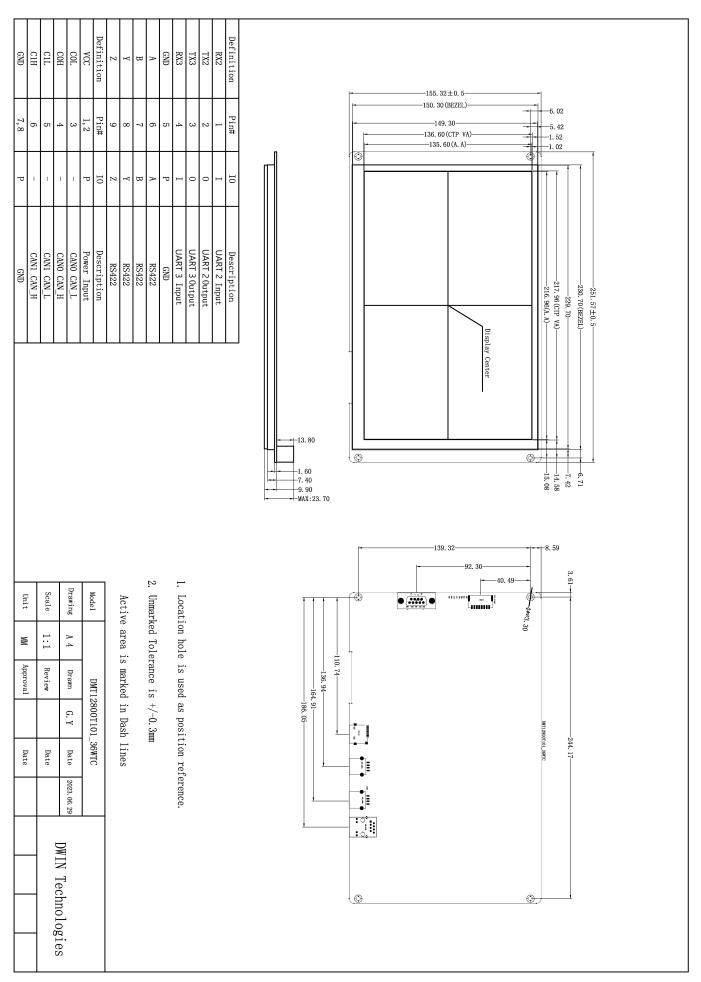
### Interface Parameters

Properties	Conditions	Min	Тур.	Max	Unit
Baud Rate	User-defined	3150	115200	3225600	bps
Output Voltage	Output 1	-	-5.0	-3.0	V
(TXD)	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, RS422*1				
Socket	8Pin_2.0mm(CAN) DB9(RS232 & RS422)				

## Packing Capacity & Dimension

Dimension						
Dimension	251.57 (W) *155.32(H)*23.7(T)mm					
Net Weight	550g					
Packing Capacity						
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)		
Carton1:	220mm(L)*160mm(W)*47mm (H)	- 0	-	-		
Carton2:	250mm(L)*200mm(W)*80mm (H)	1, 6,0	-	-		
Carton3:	320mm(L)*270mm(W)*80mm (H)	1	2	2		
Carton4:	450mm(L)*350mm(W)*300mm(H) 1 10 10			10		
Carton5:	600mm(L)*450mm(W)*300mm(H) 1 16 16					

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



#### **Revision Records**

Rev	Revise Date	Content	Editor
00	2023-08-09	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**

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

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