

DMT10600T101_36WTC



Features:

- Industrial Linux intelligent display terminal based on Allwinner T113-S3, running Linux5.4 operating system.
- 10.1-inch, 1024*600 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, capacitive touch, with shell.
- Adopt QT environment for secondary development.
- Available for multi-language, vector font library, picture library, video library and audio library.
- Connect to a PC with a network cable to download and update projects.
- Available for RS232, RS485, RS422 and Ethernet port to connect and communicate with external devices.

DWIN Alphanner Jorgen Professional, Creditable, Successful

Master Control Parameters

Properties	Parameters
Motherboard Level	Industrial
CPU	Allwinner T113-S3 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 LCD with wide view angle
Viewing Angle	85/85/85/85 (L/R/U/D)	Best view angle: symmetrical
Active Area (A.A.)	222.7mm(W)*125.3mm(H)	
View Area (V.A.)	222.7mm(W)*125.3mm(H)	- 00
Resolution	1024*600	Available for 0/90/180/270rotated 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 recommended to set brightness to 1%~30% of the maximum, which may lead to LCD flicker.)

Note: Please add animation to avoid residual images resulted by displaying of high-contrast still images for more than 30 minutes.

• Voltage & Current

Properties	Conditions	Min	Тур.	Мах	Unit	
Power Voltage		6.0	12.0	23.0	V	
On another Original	VCC = +12V, 100% brightness	-	370	-	mA	
Operation Current	VCC = +12V, Backlight off	-	130	-	mA	

Recommended power supply: 12V 1A DC

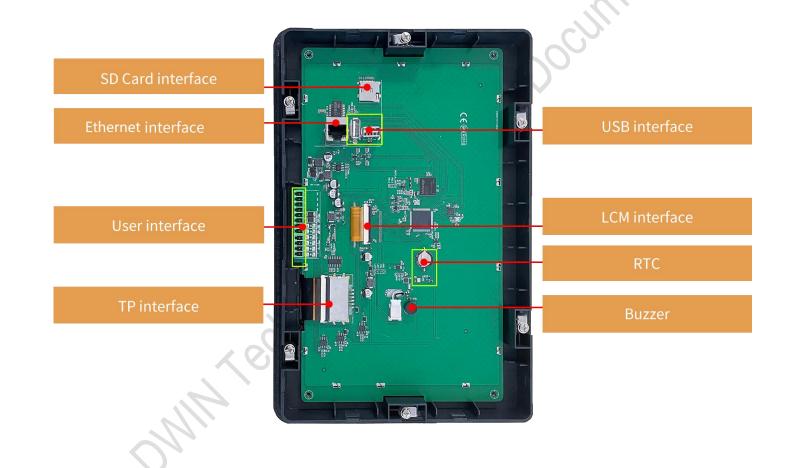
Reliability Test

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

DWIN Alpanner for your Professional, Creditable, Successful

• Peripheral and Interfaces

Properties	Parameters	Description			
	1-way RS232	UART2			
Interface	1-way RS485	UART5			
	1-way RS422	UART3			
USB Interface	2-way	HOST*2			
SD Card	1-way	Drawer type card slot Max 64G			
LAN	1-way	10/100Mbps			
RTC	Built-in	Super-capacitor RTC. Accuracy: 20ppm @25			
Buzzer	Built-in	3V passive buzzer			



DWIN Alpanner Jorgen 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	
тхр	Output 0	3.0	5.0	-	V	
Input Voltage	Input 1	-15.0	-5.0	-	V	
RXD	Input 0	-	5.0	15.0	V	
Baud Rate	User-defined	3150	115200	921600	bps	
Output Voltage	Output 1	2.5	5.0	-	V	
V_AB	Output 0	-	-0.5	-2.5	V	
Input Voltage	Input 1	0	2.5	-	V	
V_AB	Input 0	-	-2.5	-0.2	V	
Interface	RS232*1, RS485*1, RS422*1			. ne		
Socket	8Pin_3.81mm Socket, 4Pin_3.81mm Socket					

Packing Capacity & Dimension

Dimension										
Dimension	290.0(W)*192.0(H)*29.5(T)mm									
Net Weight	950g									
Packing Capacity	Packing Capacity									
Model	Size	Layer	Quantity/Layer	Quantity (Pcs)						
model	012C		Quantity/_ayor	Quantity (1 03)						
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	-	-						
			- -							
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	- - -	-						
Carton1: Carton2:	220mm(L)*160mm(W)*47mm (H) 250mm(L)*200mm(W)*80mm (H)	-	- - - -	-						

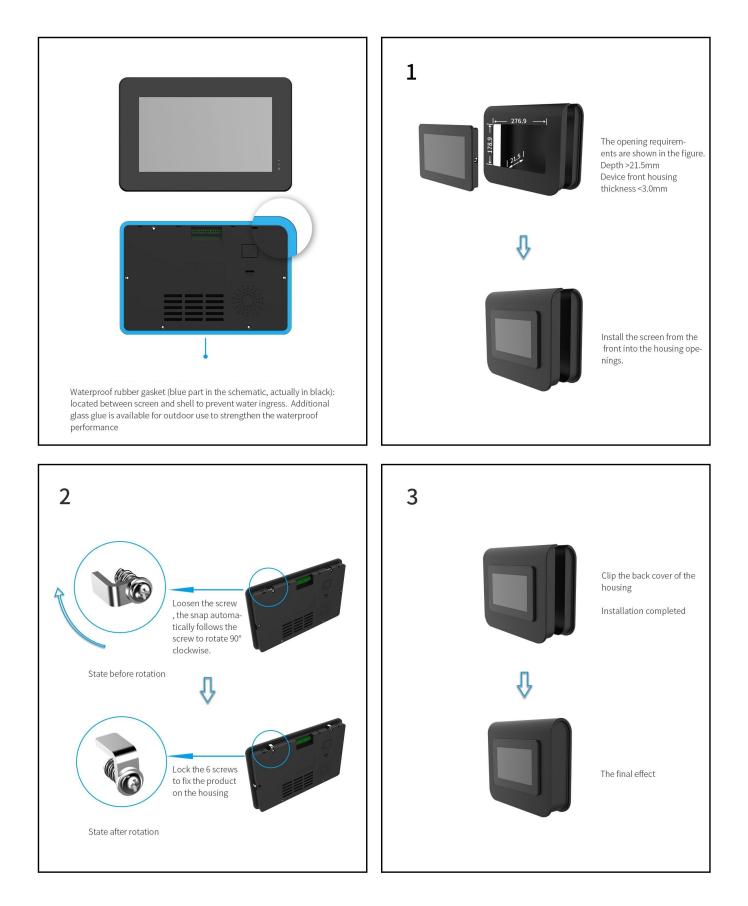
Disclaimer:

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

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.

Ζ	Υ	В	А	485-	485+	RX2	TX2	GND	VIN	Definition	29. 50 - 8. 30 - 6. 00
12	11	10	9	8	7	6	ບາ	3.4	1.2	Pin#	
I	1	1	ļ	B	A+	Ι	0	Р	P	10	
RS422	RS422	RS422	RS422	485-	485+	DIN	DOUT	GND	Power Input	Description	239.00 222.70(V. A/A. A) Display Center
Unit	DOUTO	Scale	Drawing	Mode1							
MM	1.1		A 4								
Approval		Review	Drawn	DMTT							
			DWIN	DMT10600T101-36WTC					Active	2. Unmar	
Date	5000	Date	Date	-36WTC					area is man	ked Toleran	
			DWIN Technologies						Active area is marked in Dash lines	2. Unmarked Tolerance is +/-0. 3mm	1. Location hole is used as position reference.
			ies								

Installation Schematic



CUM

Revision records

Rev	Revise Date	Content	Editor
00	2022-10-24	First Edition	Lvzhi Chen
01	2022-12-12	Package, Interface Picture and Format Update	YML
01	2024-07-02	Update image	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.