

## DMT10600T101\_38WTC



#### Features:

- Industrial Linux intelligent display terminal based on Allwinner A40i, running Linux3.10 operating system.
- 10.1-inch, 1024\*600 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, capacitive 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.
- Connect to a PC with a network cable to download and update projects.
- Available for RS232, RS485 and Ethernet port to connect and communicate with external devices.

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#### Master Control Parameters

Properties	Parameters
Motherboard Level	Industrial
CPU	Allwinner A40i Quad-core ARM CortexTM-A7 Processor
OS	Linux3.10
FLASH	8Gbytes EMMC
RAM	1Gbytes 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 0/90/180/270 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 recommended 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		9.0	12.0	23	V
Our and the comment	VCC = +12V, 100% brightness	-	440	-	mA
Operation Current	VCC = +12V, Backlight off	-	130	-	mA

Recommended power supply: 12V 1A DC

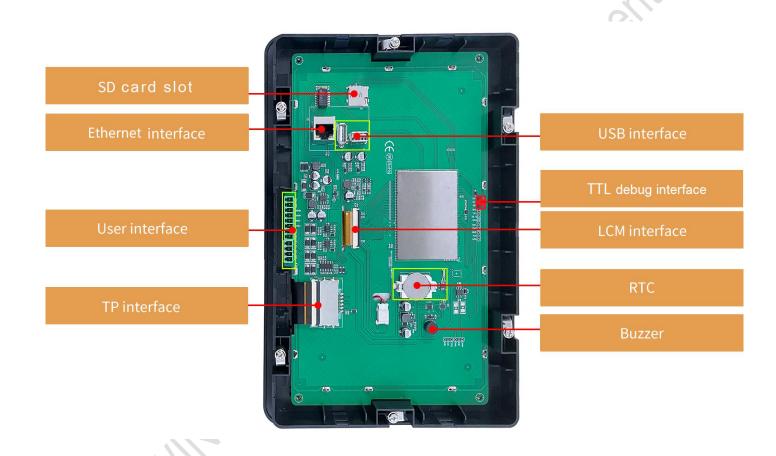
## Reliability Test

Properties	Conditions	Min	Тур.	Мах	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 $\pm 8$ KV					
EFT	Group pulse interference $\pm 2$ KV						

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#### • Peripheral and Interfaces

Properties	Parameters	Description
	2-way RS232	UART1 & UART2
СОМ	2-way RS485	UART3 & UART4
USB Interface	2-way	HOST*2
SD Card Slot	1-way	Drawer type card slot Max 64G
Ethernet Interface	1-way	10/100Mbps
RTC	Built-in	Button cell for power supply, 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.

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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		
Baud Rate	User-defined	3150	115200	921600	bps		
Output Voltage	Output 1	2.5	5.0	-	V		
(V_AB)	Output 0	-	-5	-2.5	V		
Input Voltage	Input 1	0	2.5	-	V		
(V_AB)	Input 0	-	-2.5	-0.2	V		
Interface	RS232*2, RS485*2			. Me			
Socket 8Pin_3.81mm Socket, 4Pin_3.81mm Socket							

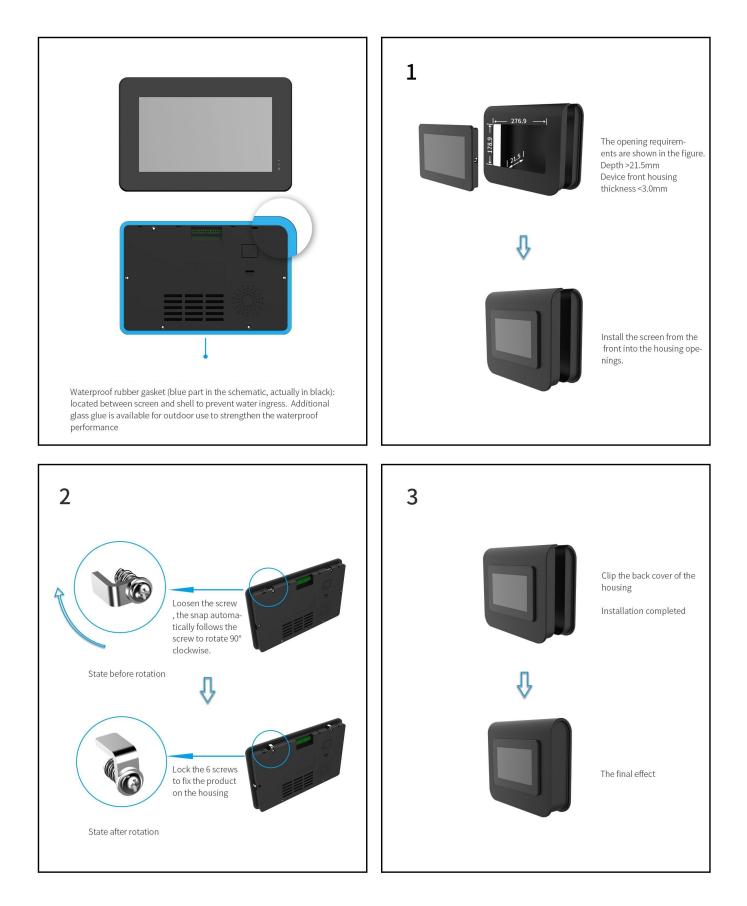
## Packing Capacity & Dimension

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)						
Carton1:	220mm(L)*160mm(W)*47mm(H)	-	-	-						
Carton2:	250mm(L)*200mm(W)*80mm(H)	-	-	-						
Carton3:	320mm(L)*270mm(W)*80mm(H)	1	1	1						
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	5	5						
Carton5:	600mm(L)*450mm(W)*300mm(H)		8	8						

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

RX1	<b>TX</b> 1	RX2	TX2	485A1	485B1	485A2	485B2	GND	NIA	Definition	- 29.50 - 8.30 - 6.00
11	10	6	8	9	ຽ	4	3	2.7.12	1	Pin#	
I	0	I	0	A+	B−	A+	B−	P	P	I0	
UART1 DIN	UART 1 DOUT	UART2 DIN	UART2 DOUT	485+	485-	485+	485-	GND	Power Input	Description	290.00 202.70(Y.A/A.A) - DMIN Technologies
Unit		Scale	Drawing	Model							
MM	1.1	1.1	A 4								
Approval		Review	Drawn	DIALI							
			DWIN	DMT10600T101-38WTC					Active	2. Unma	
Date	Date:	Dete	Date	BBWIC					e area is mark	2. Unmarked Tolerance is +/-0.3mm	
	-		DWIN Technologies						Active area is marked in Dash lines	; is +/-0, 3mm	I. Location hole is used as position reference.

# Installation Schematic



**Revision Records** 

Rev	Revise Date	Revise DateContent2022-10-24First Edition				
00	2022-10-24					
01	2022-12-12	Package, Interface Picture and Format Update	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!

## Important Disclaimer

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

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