

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.



Master Control Parameters

Properties	Parameters
Motherboard Level	Industrial
СРИ	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)	- C),		
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% of 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	1900	9.0	12.0	23	V
On a matical and Occurrent	VCC = +12V, 100% brightness	-	440	-	mA
Operation Current	VCC = +12V, Backlight off	-	130	-	mA
					1

Recommended power supply: 12V 1A DC

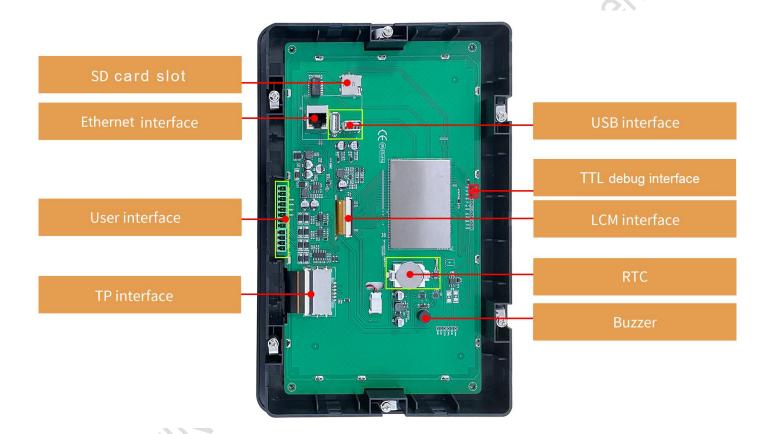
Reliability Test

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)				

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Peripheral and Interfaces

Properties Parameters		Description		
COM	2-way RS232	UART1 & UART2		
COM	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.



Interface Parameters

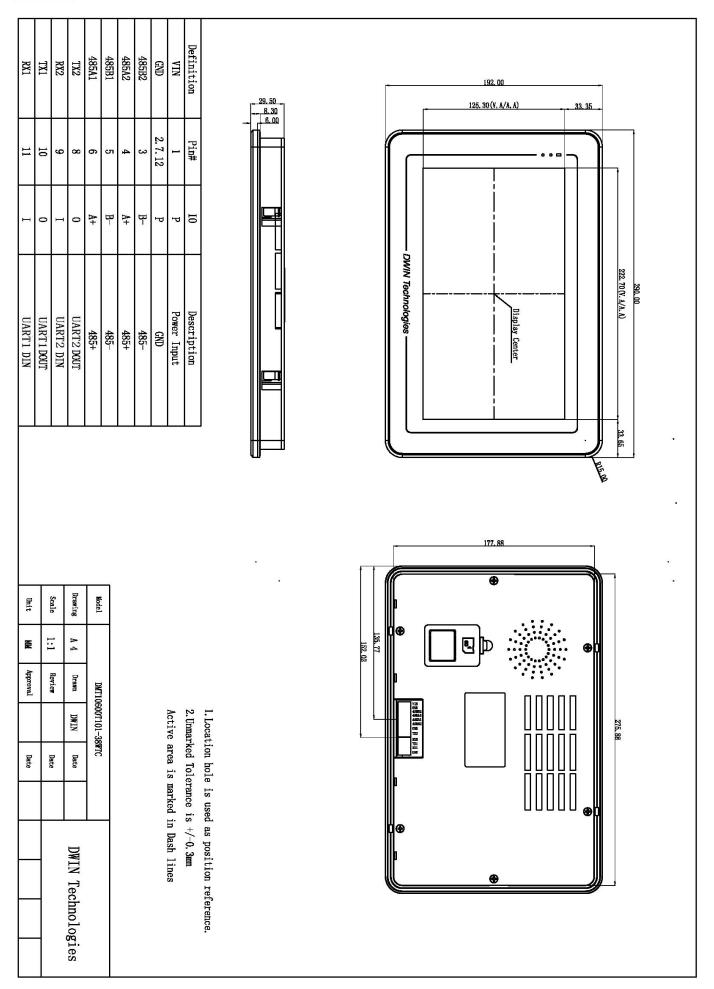
Properties	Conditions	Min	Тур.	Max	Unit
Baud Rate	d Rate User-defined		115200	3225600	bps
Output Voltage	Output 1	Output 15.0		-3.0	V
(TXD)	Output 0	3.0	5.0	-	V
Input Voltage	Input 1	-15.0	-5.0	-	V
(RXD)	Input 0	-	5.0	15.0	V
Baud Rate	I Rate User-defined		115200	921600	bps
Output Voltage (V_AB)	Output 1	2.5 5.0		-	V
	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				
Socket	8Pin_3.81mm Socket, 4Pin_3.81mm Socket				

Packing Capacity & Dimension

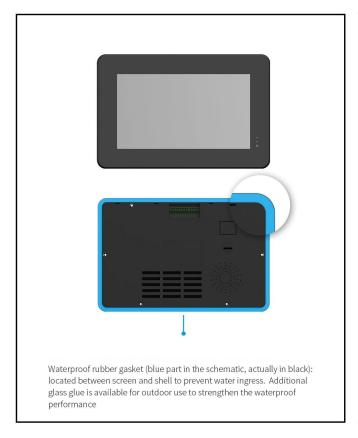
Dimension						
Dimension	290.0(W)*192.0(H)*29.5(T)mm					
Net Weight	950g					
Packing Capacity						
Model	Size	Layer	Quantity/Layer	Quantity (Pcs)		
Model Carton1:	Size 220mm(L)*160mm(W)*47mm(H)	Layer -	Quantity/Layer	Quantity (Pcs)		
		-	Quantity/Layer - -	Quantity (Pcs)		
Carton1:	220mm(L)*160mm(W)*47mm(H)	-	Quantity/Layer 1	Quantity (Pcs) 1		
Carton1: Carton2:	220mm(L)*160mm(W)*47mm(H) 250mm(L)*200mm(W)*80mm(H)	-	Quantity/Layer 1 5	Quantity (Pcs) 1 5		

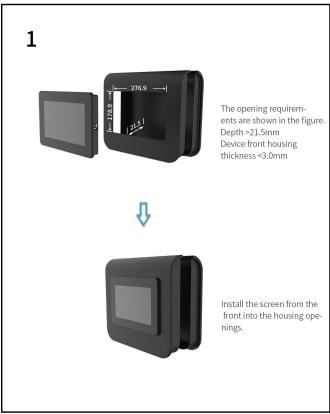
Disclaimer: The product design is subject to alternation and improvement without prior notice.

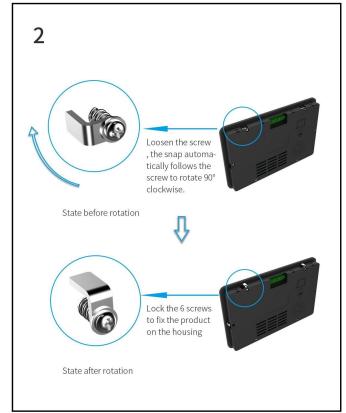
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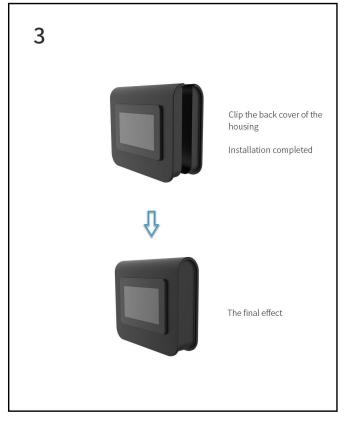


Installation Schematic











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

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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