

DMT10600T070_38WTR



Features:

- Industrial Linux intelligent display terminal based on Allwinner A40i, running Linux3.10 operating system.
- 7.0-inch, 1024*600 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, resistive 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, RS422 and Ethernet port to connect and communicate with external devices.



Master Control Parameters

Properties	Parameters			
Motherboard Level	Industrial			
СРИ	Allwinner A40i Quad-core ARM Cortex [™] -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.)	154.20mm(W)*85.88mm(H)	-		
View Area (V.A.)	155.0mm(W)*87.5mm(H)	- 000		
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 200nit		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	.00	9.0	12.0	23	V
On a matical and One	VCC = +12V, 100% brightness	-	270	-	mA
Operation Current	VCC = +12V, backlight off	-	110	-	mA
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Recommended power supply: 12V 0.5A DC

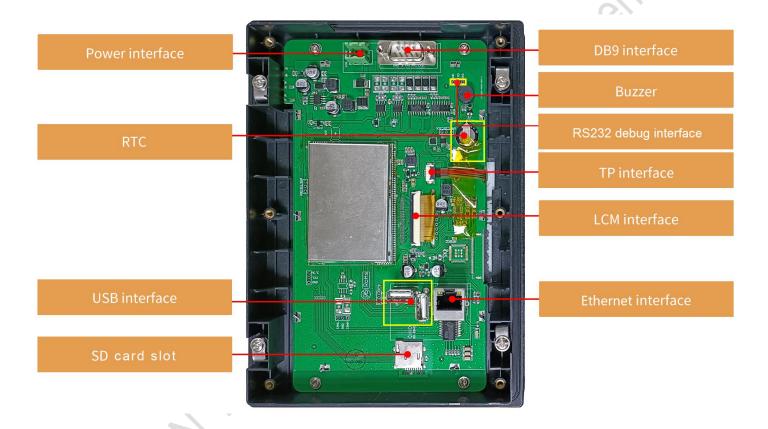
Reliability Test

Properties Conditions		Min Typ.		Max	Unit	
Working Temperature	-20	25	70	$^{\circ}$		
Storage Temperature -		-30	25	80	$^{\circ}$	
Working Humidity	25 ℃	10%	60%	90%	RH	
Conformal Coating	Yes					
ESD	Air discharge ±8KV					
EFT	Group pulse interference $\pm 2 \text{KV}$					

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Peripheral and Interfaces

Properties	Parameters	Description		
COM	2-way RS232	UART2 & UART6		
COM	1-way RS422	UART3		
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	Super-capacitor RTC, Accuracy: ±20ppm @25°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.



Interface Parameters

Properties	Conditions	Min	Тур.	Max	Unit
Baud Rate	User-defined		115200	3225600	bps
Output Voltage (TXD)	Output 1	-	-5.0	-3.0	V
	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	2Pin-5.08mm socket, DB9 interface				

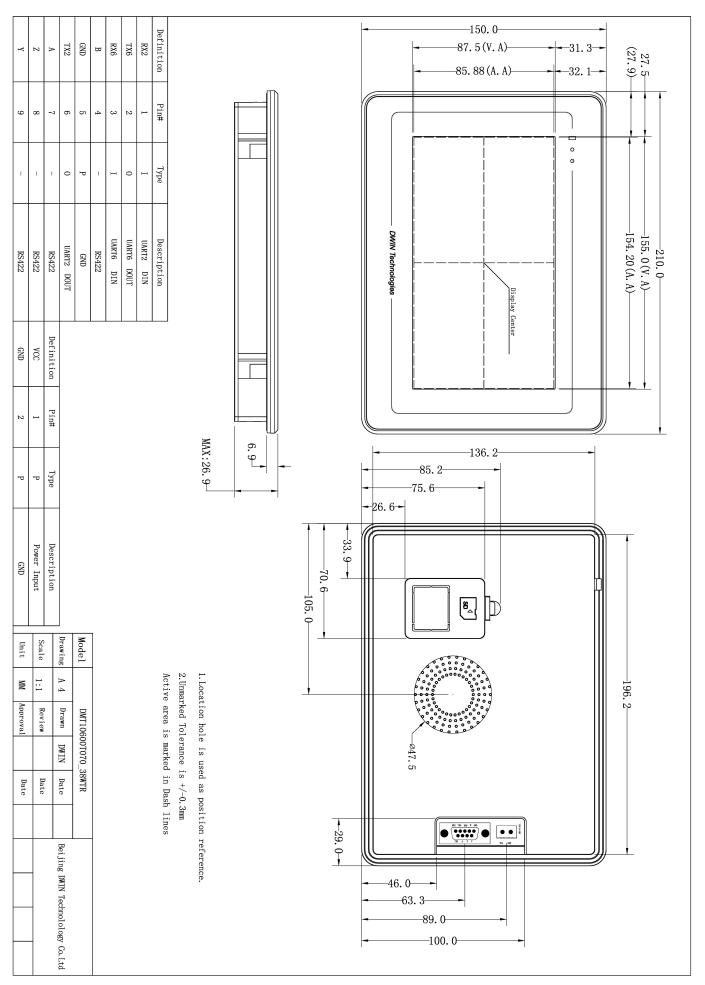
Packing Capacity & Dimension

Dimension						
Dimension	210.0(W)*150.0(H)*26.9(T)mm					
Net Weight	540g					
Packing Capacity						
Model	Size	Layer	Quantity/Layer	Quantity (Pcs)		
Carton1:	220mm(L)*160mm(W)*47mm(H)	- ()	-	-		
Carton2:	250mm(L)*200mm(W)*80mm(H)	2	1	2		
Cartonz:	230Hilli(L) 200Hilli(W) 60Hilli(H)	2	l I	_		
Carton3:	320mm(L)*270mm(W)*80mm(H)	2	-	-		
	. , , , , , , ,	- 1	- 16	- 16		

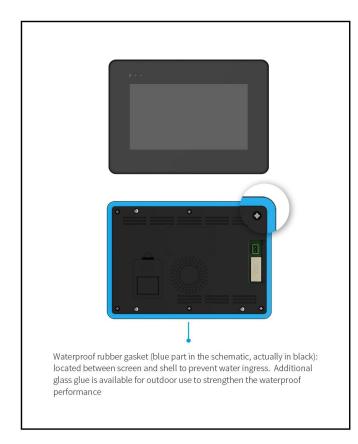
Disclaimer: The product design is subject to alternation and improvement without prior notice.

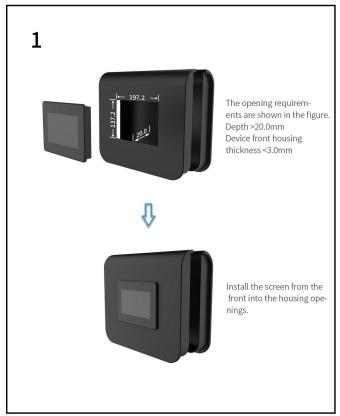
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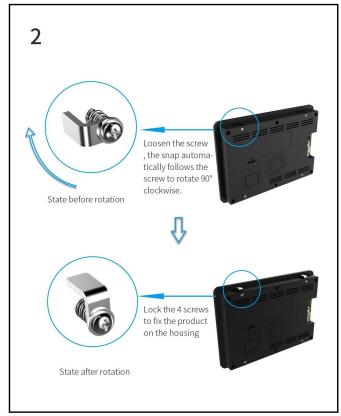
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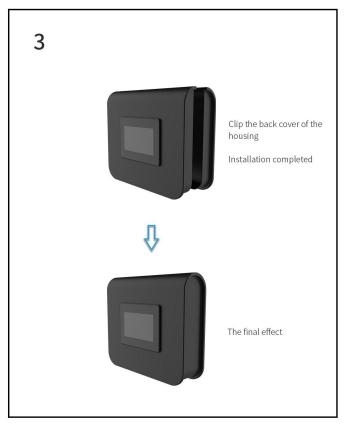


Installation Schematic









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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