

# DMT10768T097\_38WTC



## Features:

- Industrial Linux intelligent display terminal based on A40i, running Linux3.10 operating system.
- 9.7-inch, 1024\*768 pixels resolution, 16.7M colors, TN process TFT display, Capacitive touch.
- 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.
- Compatible with network cable connection with PC to download update project.
- Available for RS232, RS485, RS422 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	TN	TN process, TFT LCM with normal view angle		
Viewing Angle	70/70/50/70(L/R/U/D)			
Active Area (A.A.)	197.8mm(W)*148.66mm(H)	1024*768		
View Area (V.A.)	197.8mm(W)*148.66mm(H)	1024*768		
Resolution	1024*768	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	350nit			

Note: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.

#### • Voltage & Current

Properties	erties Conditions		Тур.	Мах	Unit
Power Voltage	<u></u>	7.0	12.0	23	V
Operation Current	VCC = +12V, backlight on	-	640	-	mA
	VCC = +12V, backlight off	-	260	-	mA

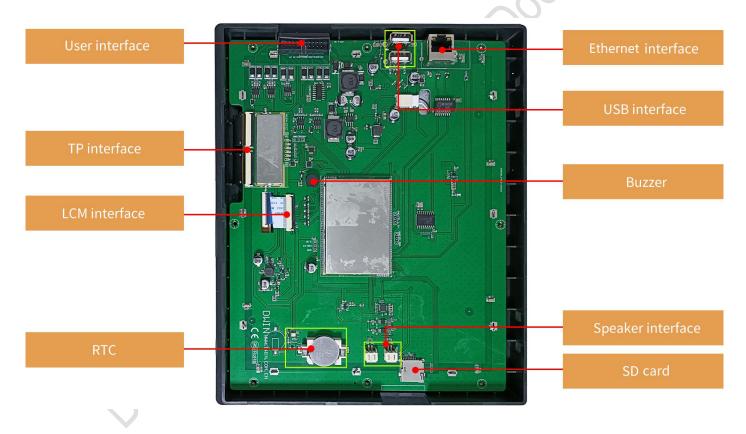
Recommended power supply: 12V 1A DC

# Reliability Test

Properties	Conditions	Min	Тур.	Мах	Unit
Working Temperature	60%RH at 12V voltage	-20	25	65	°C
Storage Temperature	-	-30	25	80	°C
Working Humidity	<b>25</b> ℃	10%	60%	90%	RH
Conformal Coating	Yes				
ESD	Air discharge $\pm$ 8KV; Contact discharge $\pm$ 6KV				
EFT	Group pulse interference $\pm 2$ KV				

## Peripheral and Interfaces

eripheral and interfaces					
Properties	Parameters	Description			
	1-way RS485	UART4			
001	1-way RS422	UART7			
COM	1-way RS232	UART2			
	1-way RS232 debug serial port	UART0			
CAN	1-way	CAN_L&CAN_H			
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: $\pm 20$ ppm @25 $^\circ$ C			
Buzzer	Built-in	3V passive buzzer			
	1				



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	Properties Conditions		Тур	Мах	Unit
Baud Rate	User-defined	3150	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; RS485*1; RS422*1				
Socket	20Pin_2.54mm Socket				

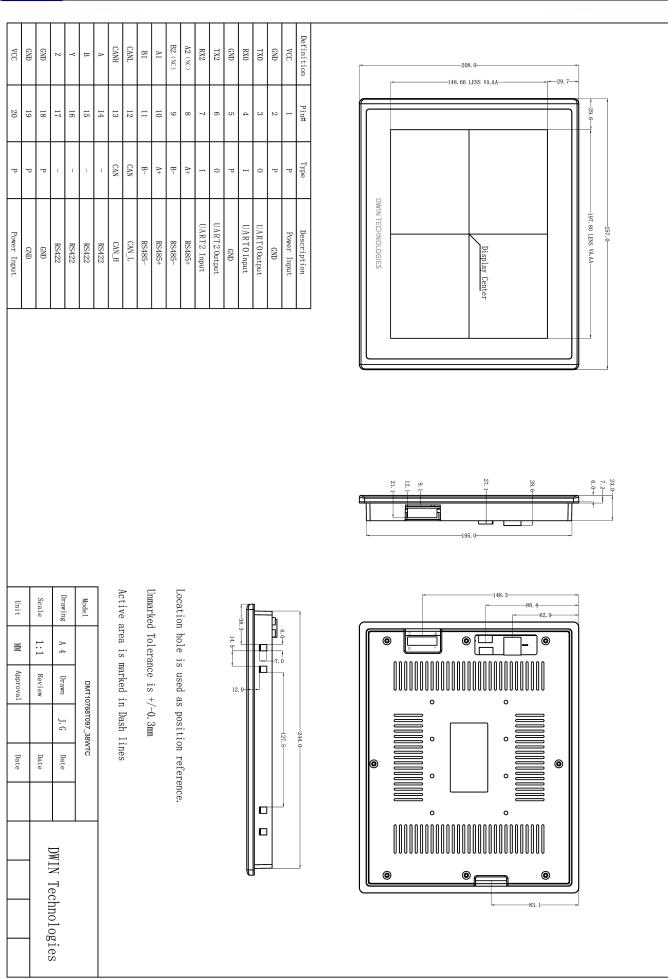
# • Packing Capacity & Dimension

Dimension						
Dimension	257.0 (W)mm*208.0(H)mm*28.6(T)mm					
Net Weight	1000g		C.V.			
Packing Capacity						
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)		
Carton1:	220mm(L)*160mm(W)*47mm (H)	- 2	-	-		
Carton2:	250mm(L)*200mm(W)*80mm (H)	T.C.Y	-	-		
Carton3:	320mm(L)*270mm(W)*80mm (H)	2	1	2		
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	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.

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**Revision Records** 

Rev	Revise Date	Content	Editor
00	2022-12-26	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!

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