

# DMT10768T097\_35WTC



## 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 QT environment for secondary development.

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- Available for multi-language, vector font library, picture library, video library and audio library.
- 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.

**DWIN** <sup>(1)</sup>

### • 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)				
View Area (V.A.)	197.8mm(W)*148.66mm(H)	-			
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	250nit				

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.	Мах	Unit
Power Voltage	- <u>-</u>	7.0	12.0	23.0	V
Operation Current	VCC = +12V, backlight on	-	640	-	mA
	VCC = +12V, backlight off	-	260	-	mA
					1

Recommended power supply: 12V 1A DC

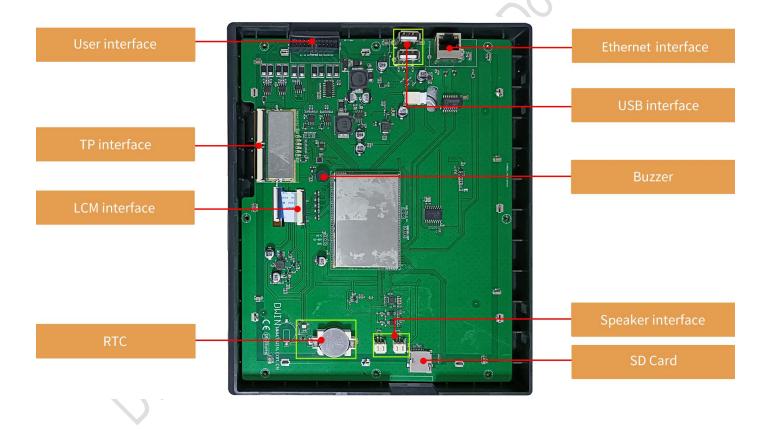
#### Reliability Test

Properties	perties Conditions		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				

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#### • Peripheral and Interfaces

Properties	Parameters	Description
	1-way RS485	UART4
60M	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°C
Buzzer	Built-in	3V passive buzzer



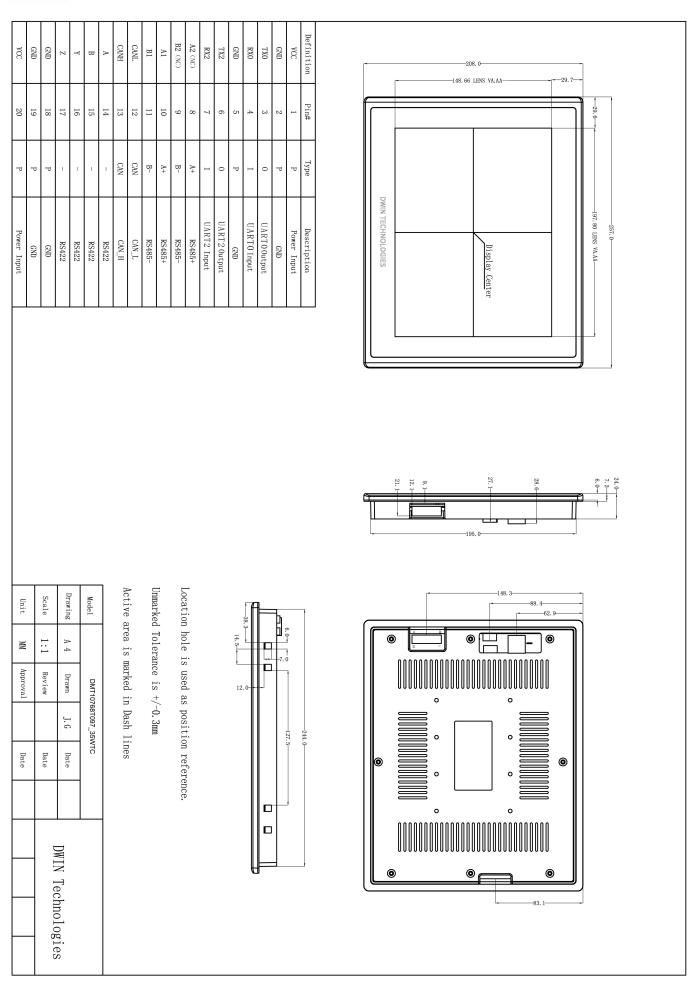
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#### • Interface Parameters

Properties	Conditions	Min	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		<u></u>	
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)*160mm(W)*47mm (H)	- 0	-	-
Carton2:	250mm(L)*200mm(W)*80mm (H)		-	-
Carton3:	320mm(L)*270mm(W)*80mm (H)	2	1	2
Carton4:	450mm(L)*350mm(W)*300mm(H)	Ч	10	10
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	16	16
OWIN	echnology			





**Revision Records** 

Rev	Revise Date	Content	Editor
00	2022-12-26	First Edition	YML
01	2025-05-16	Update Brightness	Chen

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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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