

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.

● 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	Conditions	Min	Typ.	Max	Unit
Power Voltage	-	7.0	12.0	36.0	V
Operation Current	VCC = +12V, backlight on	-	640	-	mA
	VCC = +12V, backlight off	-	260	-	mA

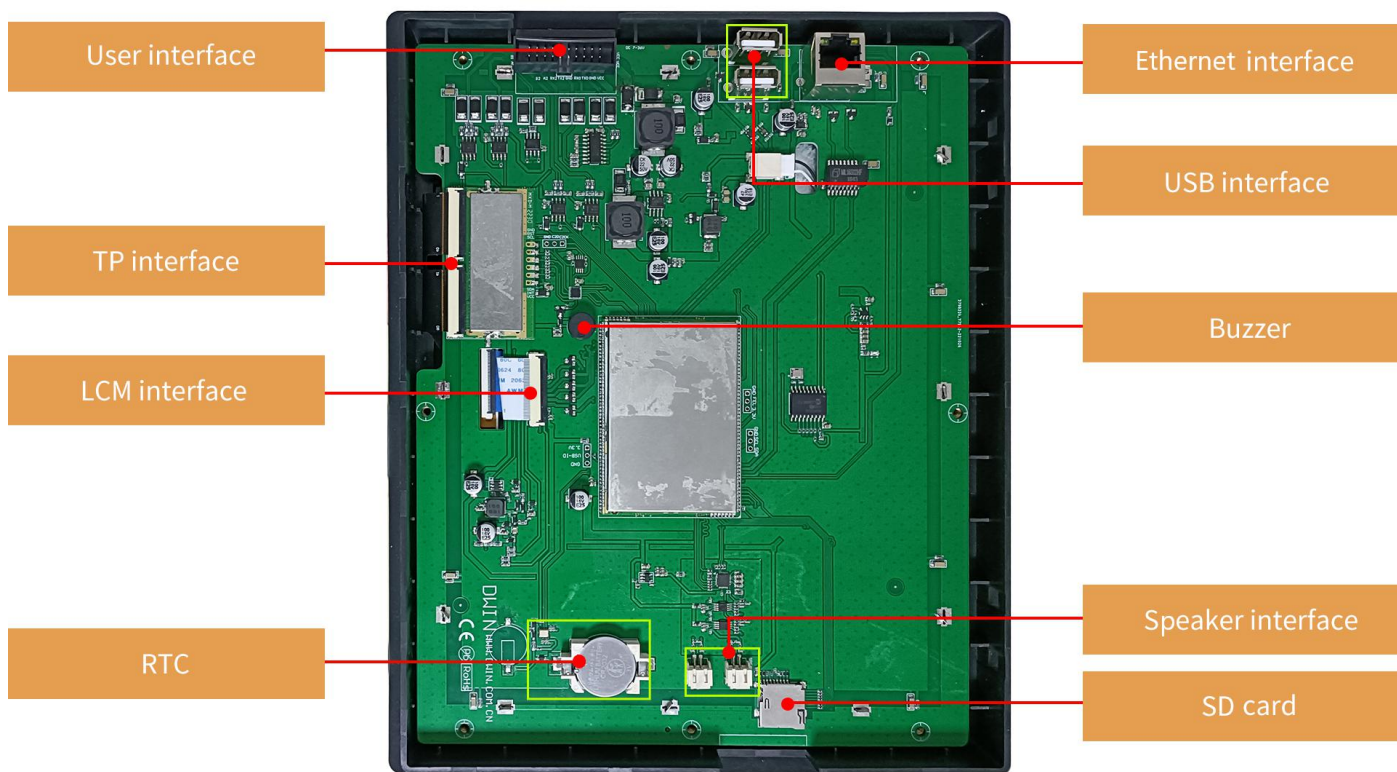
Recommended power supply: 12V 1A DC

● Reliability Test

Properties	Conditions	Min	Typ.	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	65	°C
Storage Temperature	-	-30	25	80	°C
Working Humidity	25°C	10%	60%	90%	RH
Conformal Coating	Yes				
ESD	Air discharge ±8KV; Contact discharge ±6KV				
EFT	Group pulse interference ±2KV				

Peripheral and Interfaces

Properties	Parameters	Description
COM	1-way RS485	UART4
	1-way RS422	UART7
	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: $\pm 20\text{ppm @}25^\circ\text{C}$
Buzzer	Built-in	3V passive buzzer



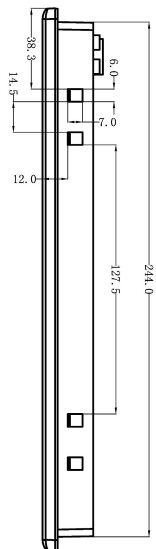
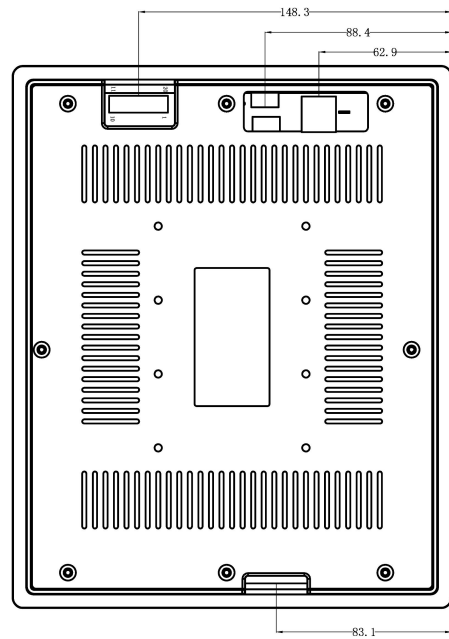
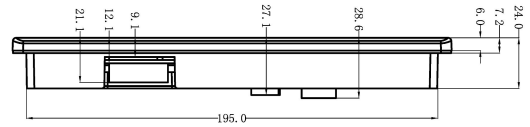
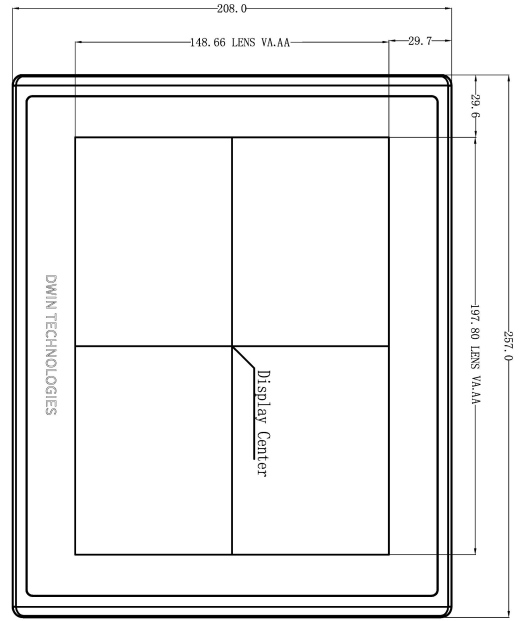
● Interface Parameters

Properties	Conditions	Min	Typ	Max	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			
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)	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.



Definition	Pin#	Type	Description
VCC	1	P	Power Input
GND	2	P	GND
TX0	3	0	UART0 Output
RX0	4	I	UART0 Input
GND	5	P	GND
TX2	6	0	UART2 Output
RX2	7	I	UART2 Input
A2 (NO)	8	A+	RS485+
B2 (NC)	9	B-	RS485-
A1	10	A+	RS485+
B1	11	B-	RS485-
CANL	12	CAN	CAN_L
CANH	13	CAN	CAN_H
A	14	-	RS422
B	15	-	RS422
Y	16	-	RS422
Z	17	-	RS422
GND	18	P	GND
GND	19	P	GND
VCC	20	P	Power Input

Location hole is used as position reference.
 Unmarked Tolerance is +/-0.3mm
 Active area is marked in Dash lines

Model	DMT10768T097_38WTC		
Drawing	A 4	Drawn	J.G
Scale	1 : 1	Review	
Unit	MM	Approval	
		Date	
DWIN Technologies			

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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