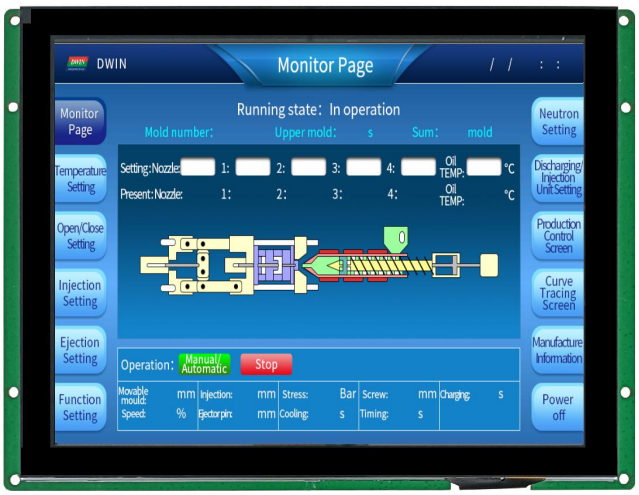
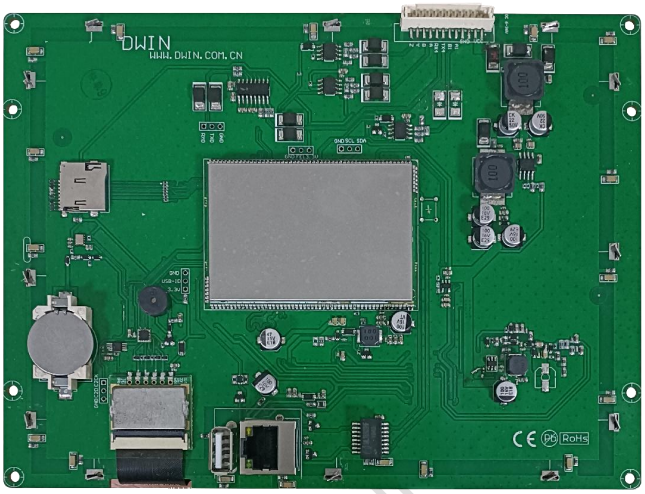
DMT10768T080_38WTC





Features:

- **Industrial Linux intelligent display terminal based on A40i, running Linux3.10 operating system.**
- **8.0-inch, 1024*768 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, CTP.**
- **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 and RS422 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	IPS	IPS process, TFT LCM with wide view angle
Viewing Angle	85/85/85/85 (L/R/U/D)	Best view angle: symmetrical
Active Area (A.A.)	162.0mm(W)*121.5mm(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	Typ.	Max	Unit
Power Voltage	-	6.0	12.0	36.0	V
Operation Current	VCC = +12V, Backlight on	-	340	-	mA
	VCC = +12V, Backlight off	-	140	-	mA
Recommended power supply: 12V 0.5A DC					

Reliability Test

Properties	Conditions	Min	Typ.	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; Contact discharge±6KV				
EFT	Group pulse interference ±2KV				

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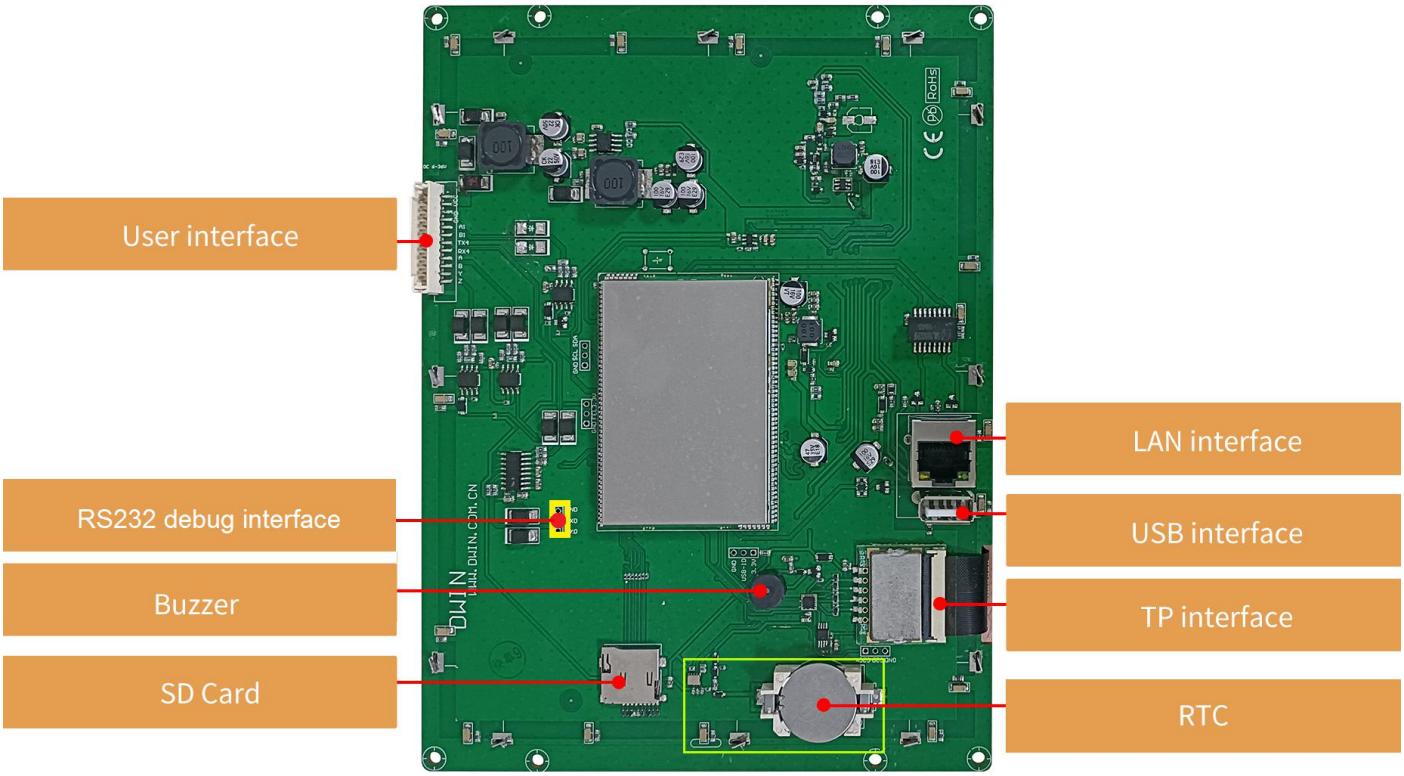
Peripheral and Interfaces

Properties	Parameters	Description
COM	1-way RS485	UART2
	1-way RS422	UART3
	1-way RS232	UART4
USB interface	1-way	HOST*1
SD card slot	1-way	Drawer type card slot(Max 64G)
LAN interface	1-way	10/100Mbps
RTC	Built-in	Button cell for power supply, Accuracy: ±20ppm @25℃
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*1; RS485*1; RS422*1				
Socket	12Pin_2.0mm Socket				

Packing Capacity & Dimension

Dimension				
Dimension	199.4 (W)*148.8(H)*27.7(T)mm			
Net Weight	440g			
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
Carton3:	320mm(L)*270mm(W)*80mm (H)	-	-	-
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	16	16
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	30	30

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

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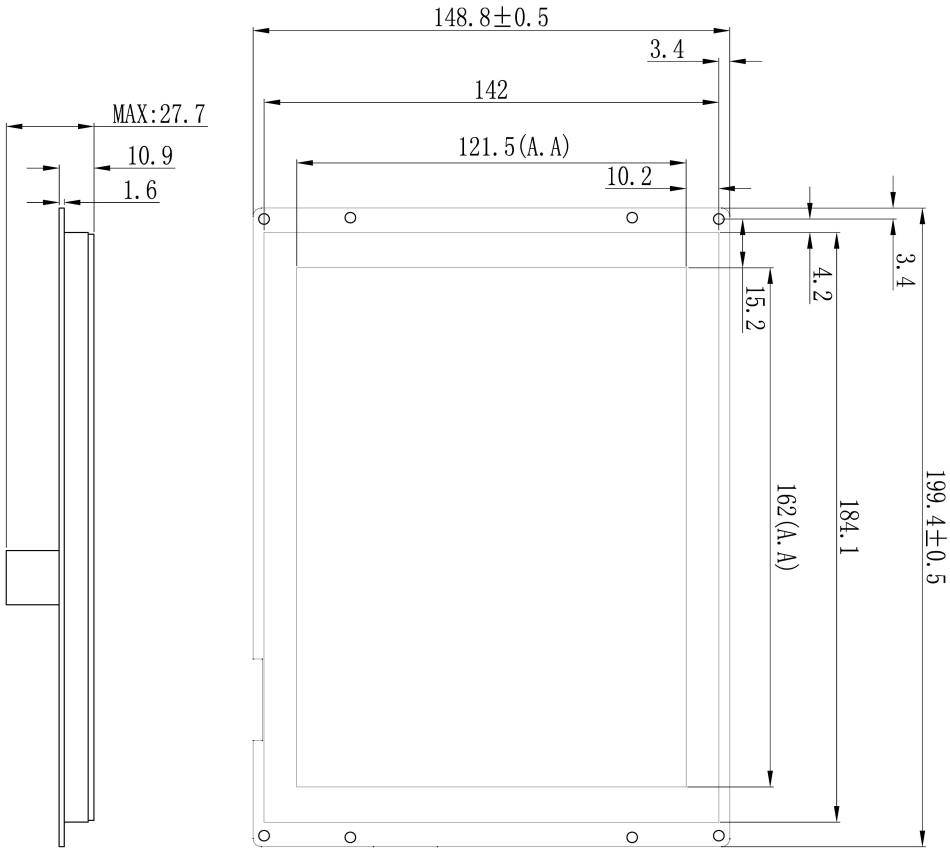
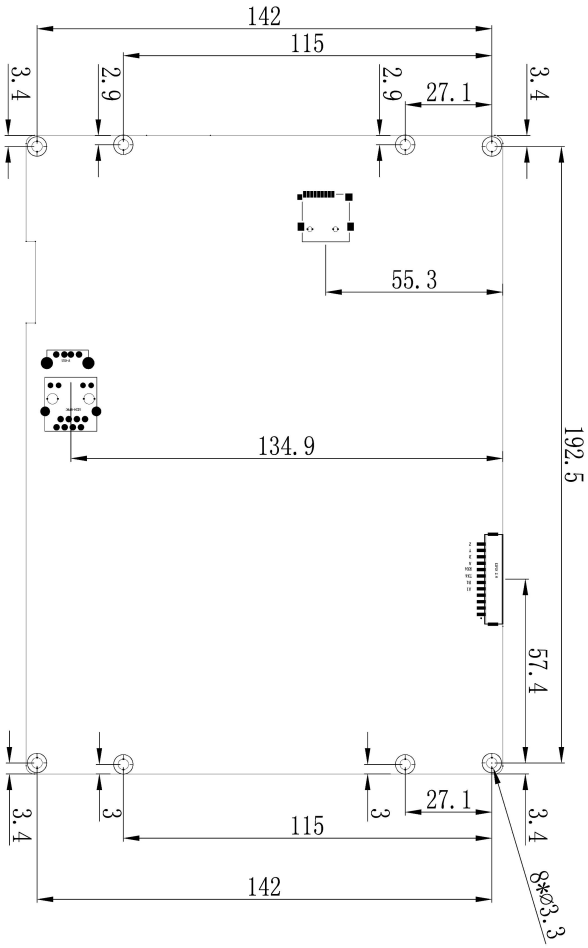


Definition	Pin#	Type	Description
VCC	1,2	P	Power Input
GND	3,4	P	GND
A1	5	A	RS485+
B1	6	B	RS485-
TX4	7	O	UART4 DOUT
RX4	8	I	UART4 DIN
A	9	-	RS422
B	10	-	RS422
Y	11	-	RS422
Z	12	-	RS422



Location hole is used as position reference.

Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines

Model	DMT10768T080-38WTC		
Drawing	A 4	Drawn	Date
Scale	1:1	Review	Date
Unit	MM	Approval	Date

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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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