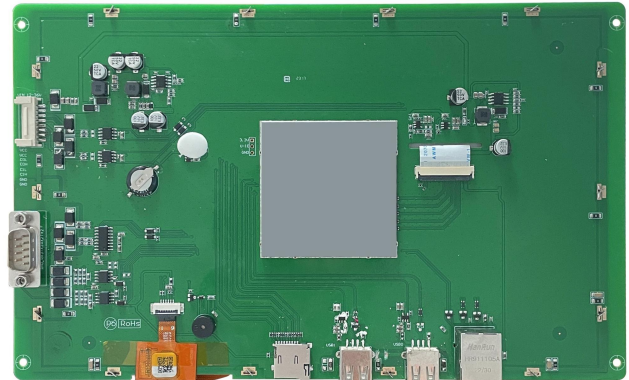
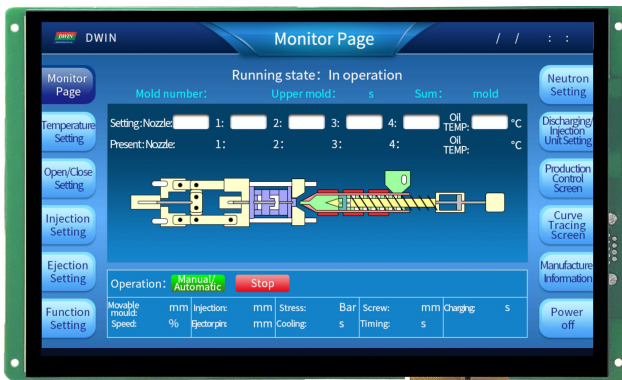


DMT12800T101_39WTC



Features:

- Industrial Linux intelligent display terminal based on T113, running Linux5.4 operating system.
- 10.1-inch, 1280*800 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, 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, RS422 and CAN port to connect and communicate with external devices.

● Master Control Parameters

Properties	Parameters
Motherboard Level	Industrial
CPU	Dual-core ARM Cortex™-A7 Processor
OS	Linux5.4
FLASH	8GBytes EMMC
RAM	128MBytes DDR3

● Display Parameters

Properties	Parameters	Description
Color	16.7M (16777216) colors	24 bit color 8R8G8B
Panel Type	IPS	IPS process, TFT LCM with wide viewing angle
Viewing Angle	85/85/85/85 (L/R/U/D)	Best view: symmetrical
Active Area (A.A.)	216.96mm(W)*135.60mm (H)	-
View Area (V.A.)	217.96mm(W)*136.60mm (H)	-
Resolution	1280*800	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	100 levels adjustment(It's not recommend 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	Typ.	Max	Unit
Power Voltage	-	12.0	12.0	36.0	V
Operation Current	VCC = +12V, Backlight on	-	440	-	mA
	VCC = +12V, Backlight off	-	140	-	mA

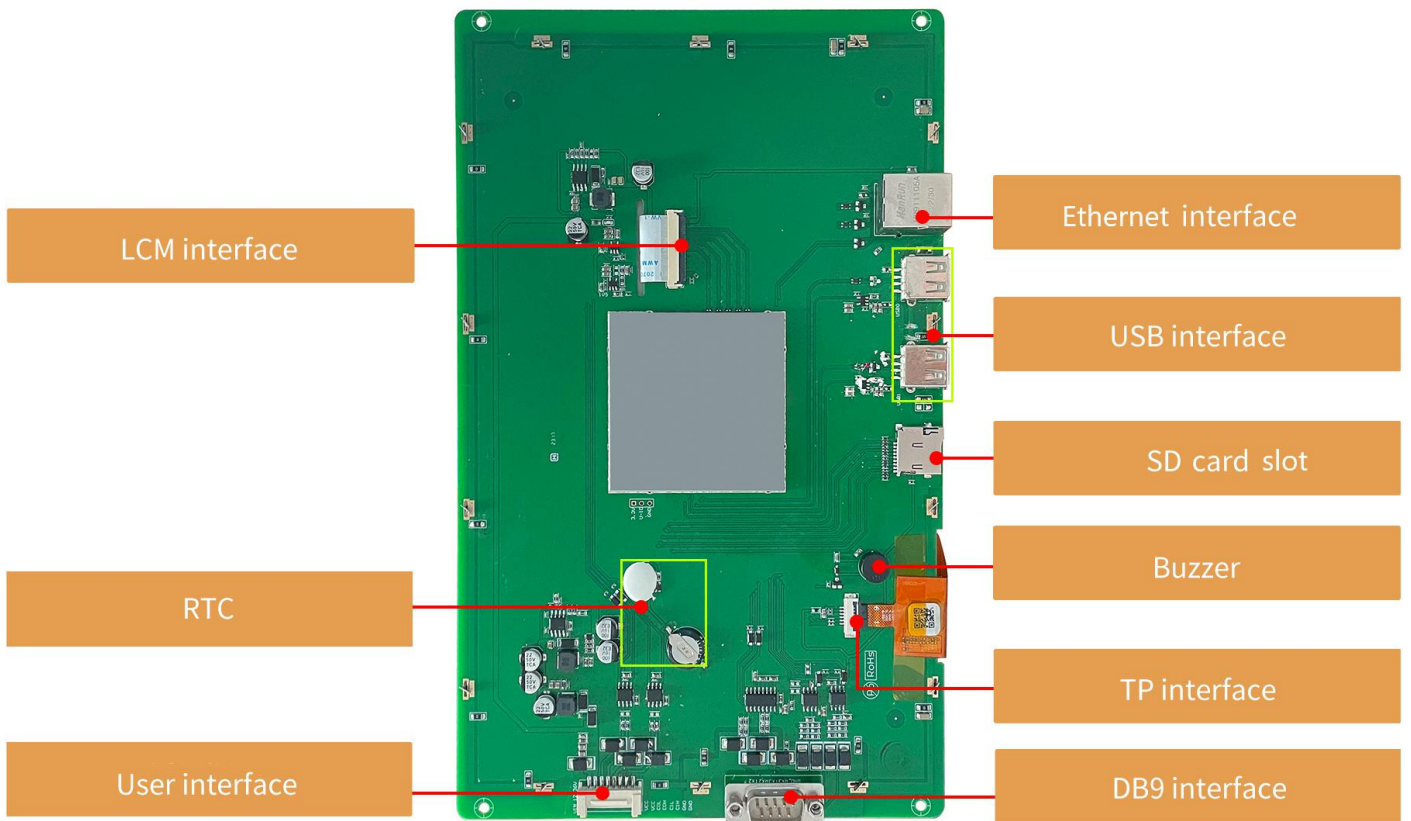
Recommended power supply: 12V 1A DC

● 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				

Peripheral and Interfaces

Properties	Parameters	Description
Interface	2-way RS232	UART2 & UART3
	1-way RS422	A, B,Y,Z
	2-way CAN	CAN1 & CAN2
USB Interface	2-way	HOST*2
SD Card Slot	1-way	Drawer type card slot(Max 64G)
Ethernet	1-way	10/100Mbps
RTC	Built-in	Super-capacitor RTC. Accuracy: $\pm 20\text{ppm @}25^{\circ}\text{C}$
Buzzer	Built-in	3V passive buzzer



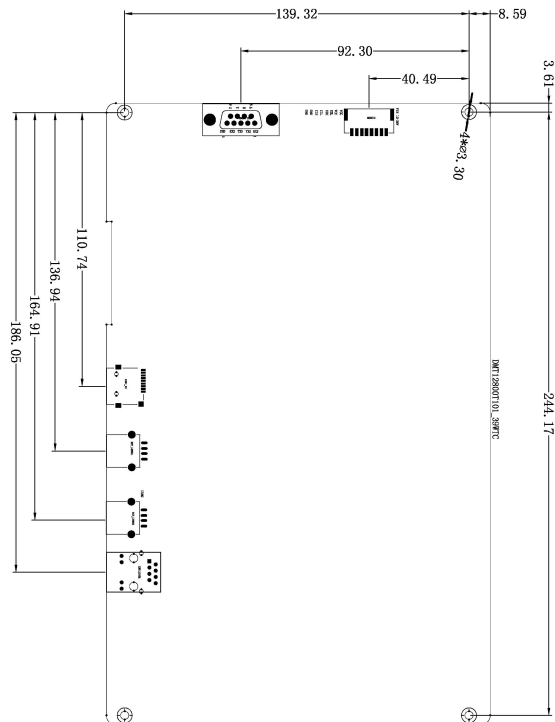
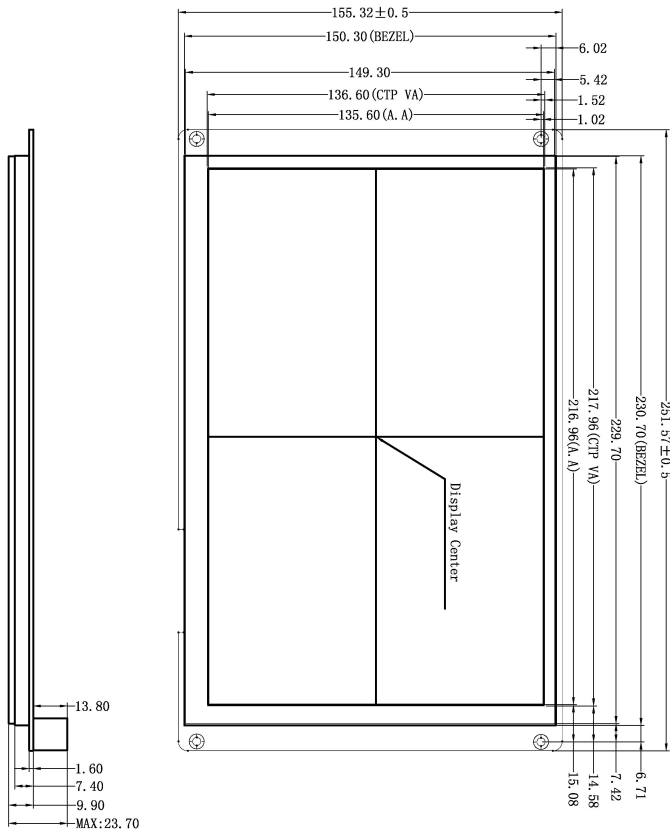
● Interface Parameters

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, RS422*1				
Socket	8Pin_2.0mm(CAN) DB9(RS232 & RS422)				

● Packing Capacity & Dimension

Dimension				
Dimension	251.57 (W) *155.32(H)*23.7(T)mm			
Net Weight	550g			
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)	1	2	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#	IO	Description
RX2	1	I	UART 2 Input
TX2	2	O	UART 2 Output
TX3	3	O	UART 3 Output
RX3	4	I	UART 3 Input
GND	5	P	GND
A	6	A	RS422
B	7	B	RS422
Y	8	Y	RS422
Z	9	Z	RS422
Definition	Pin#	IO	Description
VCC	1,2	P	Power Input
COL	3	-	CAN0 CAN_L
COH	4	-	CAN0 CAN_H
CLL	5	-	CAN1 CAN_L
CHH	6	-	CAN1 CAN_H
GND	7,8	P	GND

1. Location hole is used as position reference.

2. Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines

Model				DMT12800T101_39WTC			
Drawing	A 4	Drawn	G. Y	Date	2023.06.29	DWIN Technologies	
Scale	1 : 1	Review		Date			
Unit	MM	Approval		Date			

Revision Records

Rev	Revise Date	Content	Editor
00	2023-08-09	First Edition	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:

Customer service Tel: +86-400-018-9008

Customer service E-mail: dwinhmi@dwin.com.cn

Website: www.dwin-global.com

DWIN Developer Forum: <https://forums.dwin-global.com/index.php/forums>

Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!

DWIN Technology Technical Document