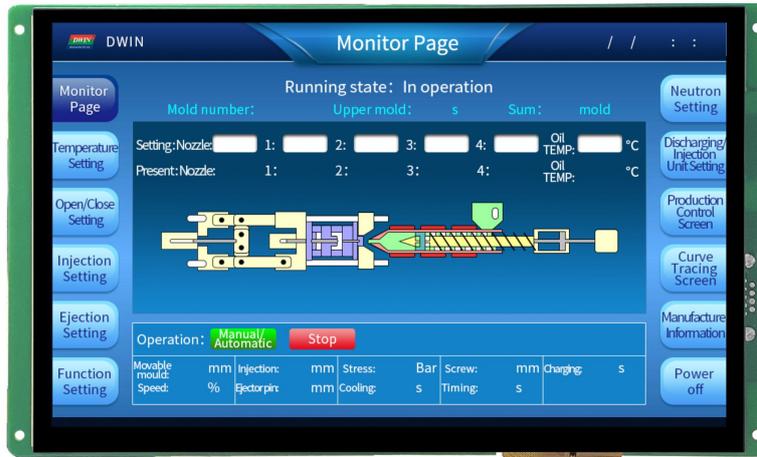


DMT12800T101_36WTC



DWIN Technology

● System Hardware

Properties	Parameters
Motherboard Level	Industrial
CPU	T113, Dual-core ARM Cortex™-A7 1GHz Processor
OS	Linux 5.4
FLASH	8GBytes eMMC
RAM	128MBytes DDR3

● Display Parameters

Properties	Parameters	Description
LCD Type	IPS, TFT LCD	-
Viewing Angle	85°/85°/85°/85°	Wide viewing angle, high contrast, and good color reproduction
Active Area (AA)	216.96mm(W)x135.60mm(H)	-
Viewing Area (VA)	217.96mm(W)x136.60mm(H)	-
Resolution	1280x800	-
Backlight Service Life	>20000 Hrs	Backlight service life refers to the period the LED backlight operates under test conditions until brightness decreases to 50% of the initial level.
Brightness	250nit	100-level brightness adjustment (Flickering may occur at 1%-30% of max brightness; not recommended for use in this range)

Note: Use dynamic screen saver to prevent afterimages from prolonged fixed page display.

● Touch Parameter

Properties	Parameters
Touch Type	Capacitive touch panel
Structure	G+G structure with tempered glass surface

● Power Supply

Properties	Min	Typ	Max	Unit
Power Voltage	12.0	12.0	36.0	V

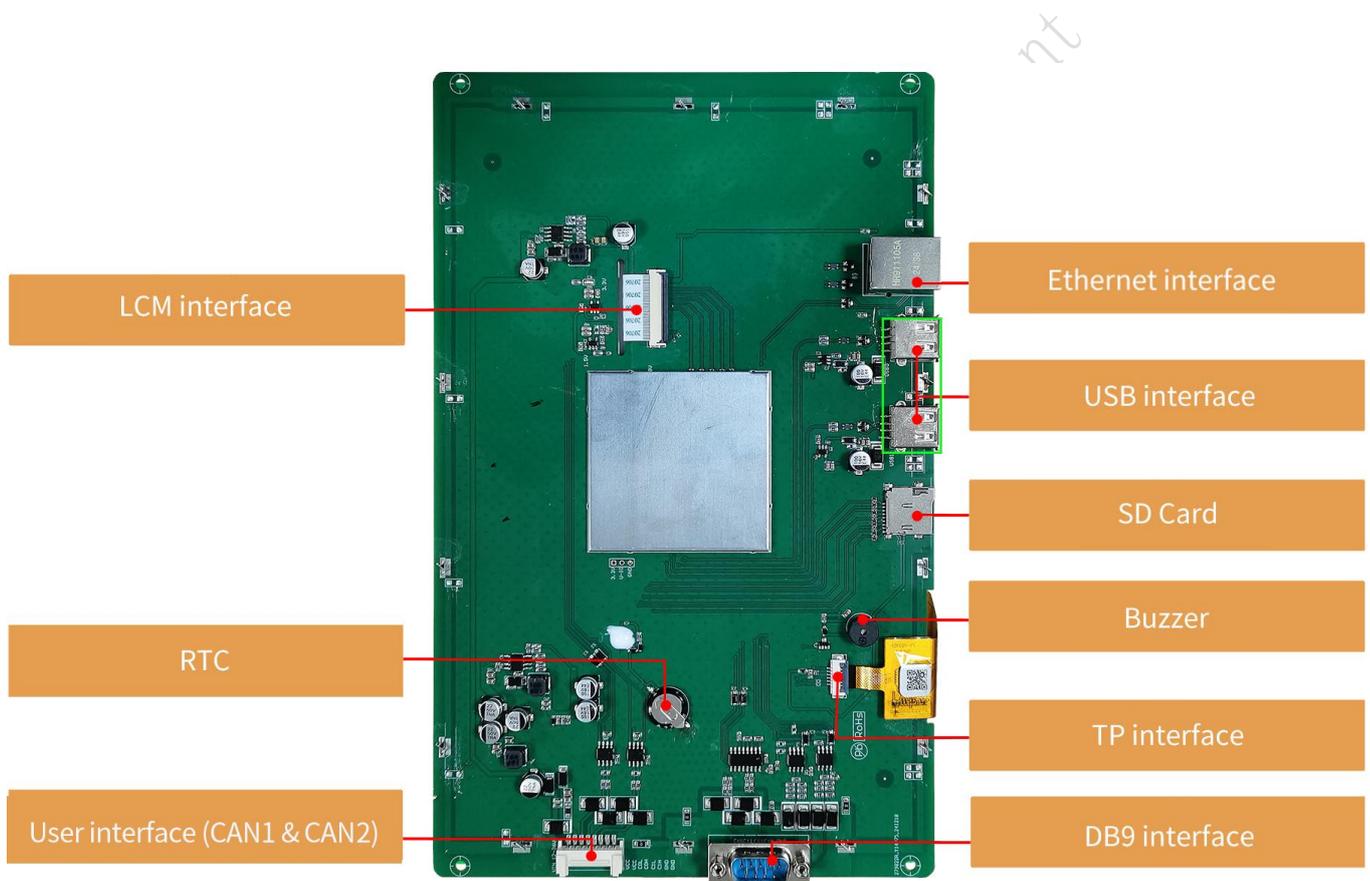
Recommended power supply:12V 1A DC.

● Environment & 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	Y				
ESD	Air: ±8KV, Contact: ±6KV				
EFT	Group pulse interference ±2KV				
RE	Class A				
CE Certification	Y				

Peripheral and Interfaces

Properties	Description
User Interface	8Pin_2.0mm*1, DB9*1
COM	RS232*2 (COM2 & COM3), RS485*2 (COM4 & COM5)
Ethernet	10/100Mbps
USB	USB 2.0*2 (HOST)
SD Card	Max 64G
RTC	Accuracy: $\pm 20\text{ppm}$ @25°C
CAN	CAN*2 (CAN1 & CAN2)
Buzzer	3V passive buzzer



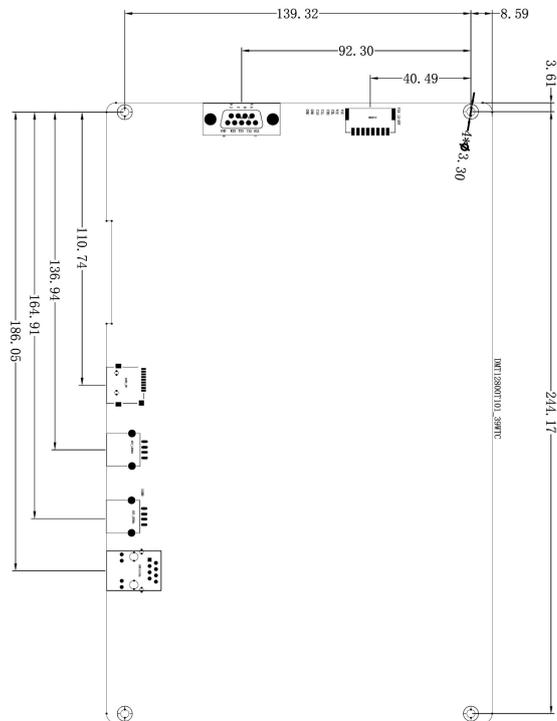
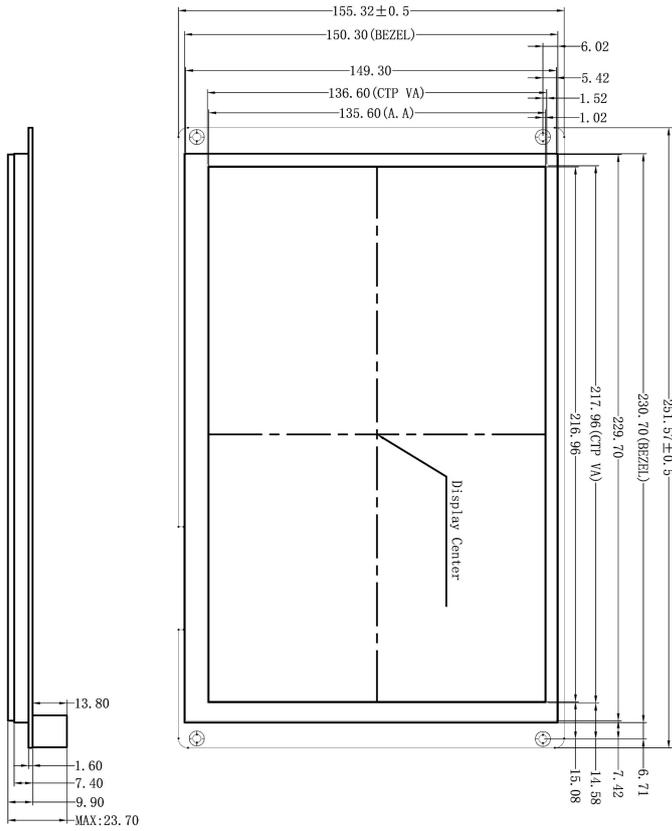
- **Development Platform**

Development	
QT	QtCreator2.7.2 and above

- **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)	2	1	2
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	10	10
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	20	20

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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+	UART 4 485+
B	7	B-	UART 4 485-
Y	8	Y	UART 5 485+
Z	9	Z	UART 5 485-
Definition	Pin#	IO	Description
VCC	1,2	P	Power Input
COL	3	-	CAN0 CAN_L
COH	4	-	CAN0 CAN_H
CIL	5	-	CAN1 CAN_L
CIH	6	-	CAN1 CAN_H
GND	7,8	P	GND

Model		DMT12800T101_36WTC	
Drawing	A 4	Drawn	G. Y
Scale	1 : 1	Review	
Unit	MM	Approval	
		Date	2023.06.29
		Date	

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

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Revision Records

Rev.	Revise Date	Content	Editor
00	2023-08-09	First Edition	YML
01	2025-01-16	Revised appearance	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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