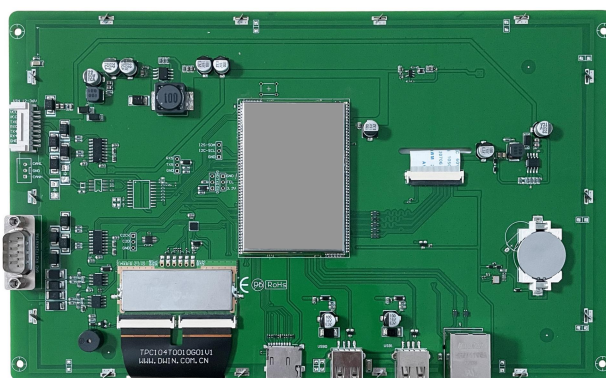
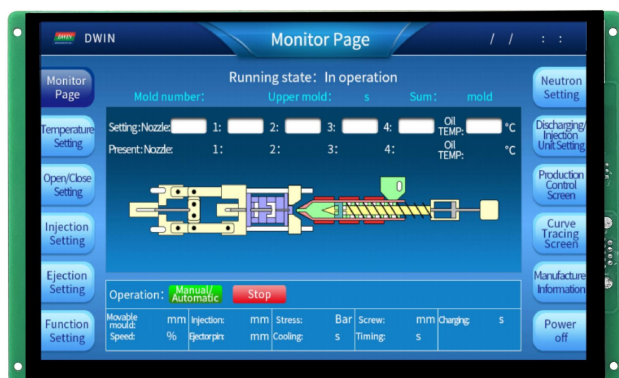


DMT12800T101_35WTC



● System Hardware

Properties	Parameters
Motherboard Level	Industrial-grade
CPU	A40i, Quad-core ARM CortexTM-A7 1.2GHz Processor
OS	Linux 3.10
Storage	8Gbytes eMMC
RAM	1Gbytes DDR3

● Display Parameters

Properties	Parameters	Description
Size	10.1 inch	-
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)x135.60mm(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	350nit	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

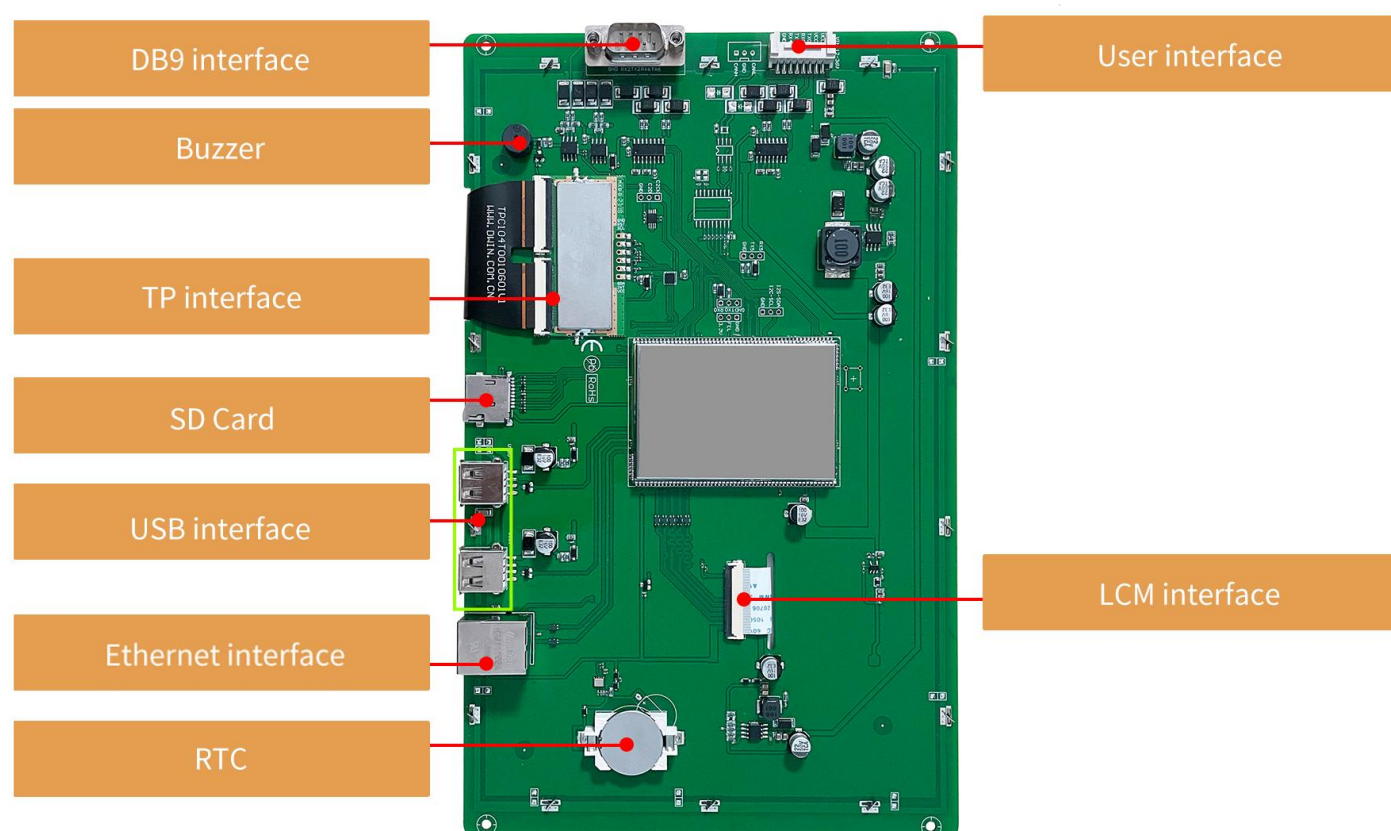
Recommended power supply: 12V 1A DC.

● 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	Yes				
ESD	Air discharge ±8KV; Contact discharge ±6KV				
EFT	Group pulse interference ±2KV				

Peripheral and Interfaces

Properties	Description
User Interface	8Pin_2.0mm Socket, DB9 Socket
COM	RS232*4 (COM0 & COM2 & COM4 & COM6), RS422*1 (COM3)
USB	USB*2 (HOST)
SD card	Max. 64G
Ethernet	10/100Mbps
RTC	Accuracy: $\pm 20\text{ppm}$ @25°C
Buzzer	3V passive buzzer
CAN	Reserved CAN interface

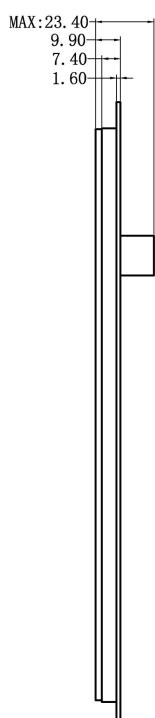
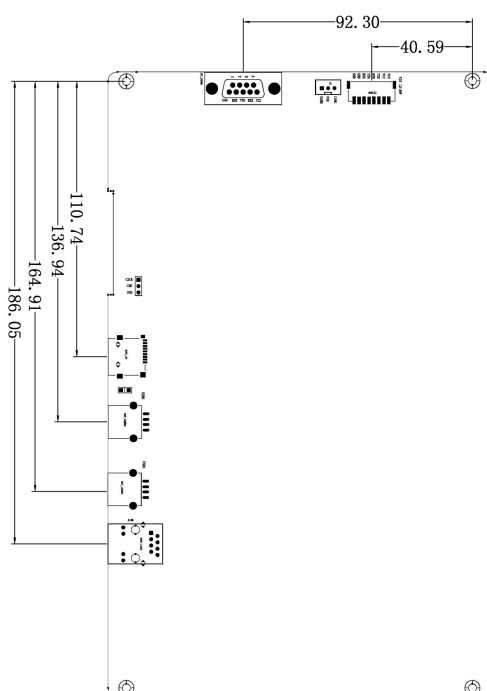
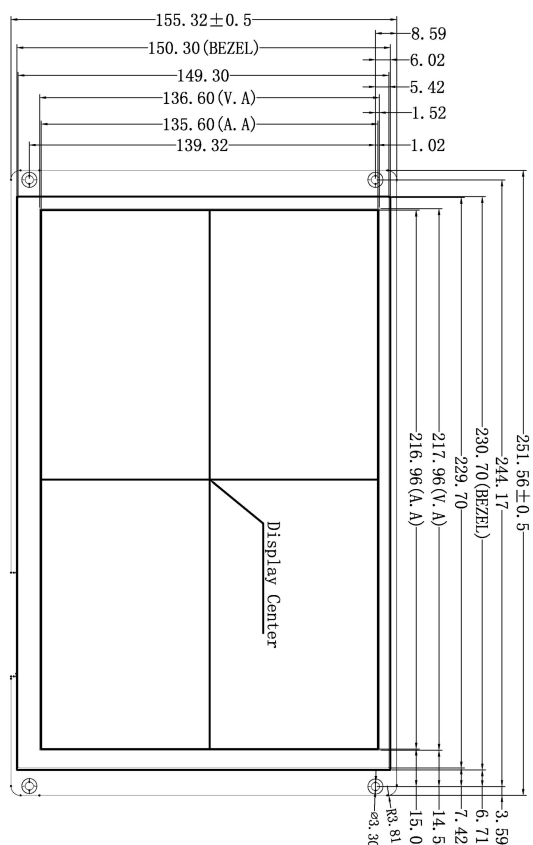


● Development Platform

Development	
QT	QtCreator2.7.2 and above

● Packing Capacity & Dimension

Dimension				
Dimension	251.56(W)x155.32(H)x23.40(T)mm			
Net Weight	545g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)×160mm(W)×47mm	-	-	-
Carton2:	250mm(L)×200mm(W)×80mm	-	-	-
Carton3:	320mm(L)×270mm(W)×80mm	-	-	-
Carton4:	450mm(L)×350mm(W)×300mm	-	-	-
Carton5:	600mm(L)×450mm(W)×300mm	1	20	20



Definition	Pin#	10	Description
CANL	1	CAN_L	CAN VIL
GND	3	P	GND
CANH	4	CAN_H	CAN VIH
Definition	Pin#	10	Description
VCC	1, 2	P	Power Input
TX0	3	0	UART 0 Dout
RX0	4	I	UART 0 DIN
TX4	5	0	UART 4 Dout
RX4	6	I	UART 4 DIN
GND	7, 8	P	GND
Definition	Pin#	10	Description
A	1	-	RS422
B	2	-	RS422
Y	3	-	RS422
Z	4	-	RS422
GND	5	P	GND
RX2	6	I	UART 2 DIN
TX2	7	0	UART 2 Dout
RX6	8	I	UART 6 DIN
TX6	9	0	UART 6 Dout

Model	DMG12800T101-35WTC					DWIN Technologies				
Drawing	A 4	Drawn	G, Y	Date	2022.10.08					
Scale	1 : 1	Review		Date						
Unit	MM	Approval		Date						

Location hole is used as position reference.

Unmarked Tolerance is $\pm 0.3\text{mm}$

Active area is marked in Dash lines

● Revision records

Rev	Revise Date	Content	Editor
00	2022-10-08	First Edition	Zheng Yunjia
01	2022-12-20	Update brightness and lead out CAN interface	Zheng Yunjia
02	2023-07-13	Change COB structure and update physical drawings	Zheng Yunjia
03	2025-05-16	English Version	Chen
04	2025-06-10	Modify voltage range	Chen

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!

Important Disclaimer

DWIN reserves the right to make any changes to product designs without prior notice.

Customers should ensure strictly adhering to all the relevant standards and requirements during the product application process, including but not limited to functional safety, information security, and regulatory provisions.

DWIN shall not bear any joint and several liability for any consequences that may arise from customers' adoption of DWIN products. In particular, for risks that may lead to significant property losses, environmental hazards, personal injury, or even death, especially in high-risk application areas such as military applications, flammable and explosive places, and life-saving medical equipment, customers should independently assess the risks and take corresponding preventive and protective measures. DWIN shall not bear any relevant responsibility.

DWIN Technology Technical Document