DMG10600T070_40WTC

● **System Hardware**

Properties	Parameters
Motherboard level	Industrial-grade
CPU	RK3566, Quad-core ARM Cortex-A55, 1.8GHz Processor
OS	Linux 4.19
Storage	8Gbytes eMMC
RAM	2Gbytes LPDDR4

● **Display Parameters**

Properties	Parameters	Description
Size	7.0 inch	-
LCD Type	IPS, TFT LCD	-
Viewing Angle	85°/85°/85°/85°	Wide viewing angle, high contrast, and good color reproduction
Active Area (AA)	154.08mm(W)×85.92mm (H)	-
Resolution	1024×600	-
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	11.0	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: ±6K				
RE	Class B				
CE Certification	Y				

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● **Peripherals and Interfaces**

Properties	Description
User Interface	10Pin_3.81mm horizontal socket, power interface (3PIN_Φ2.0DH)
COM	RS232*2 (COM5 & COM9), RS485*1(COM7), RS232/TTL*1 (COM0, RS232 default)
USB	USB 2.0*2 (HOST), Type C*1 (OTG)
Headphone	3.5mm spacing interface *1
Speaker	2Pin_1.25mm interface *1
Microphone	2Pin_1.25mm interface *1
4G module	Factory not configured, customizable to add
Camera	MIPI (24Pin_0.5mm interface)
SD card	Max. 64G
LAN	10/100Mbps
Wi-Fi	IEEE 802.11Bb/g/n,2.4GHz, Bluetooth
Bluetooth	4.2GHz
RTC	Accuracy: ±20ppm @25℃
GPIO Interface	GPIO*6

4G module interface

GPIO interface

SIM card slot

RTC

USB interface

Buzzer

Ethernet interface

Headphone interface

Camera interface

Power interface

User interface

Wi-Fi/Bluetooth combo module

SD card slot

Type C interface

Microphone interface

Speaker interface

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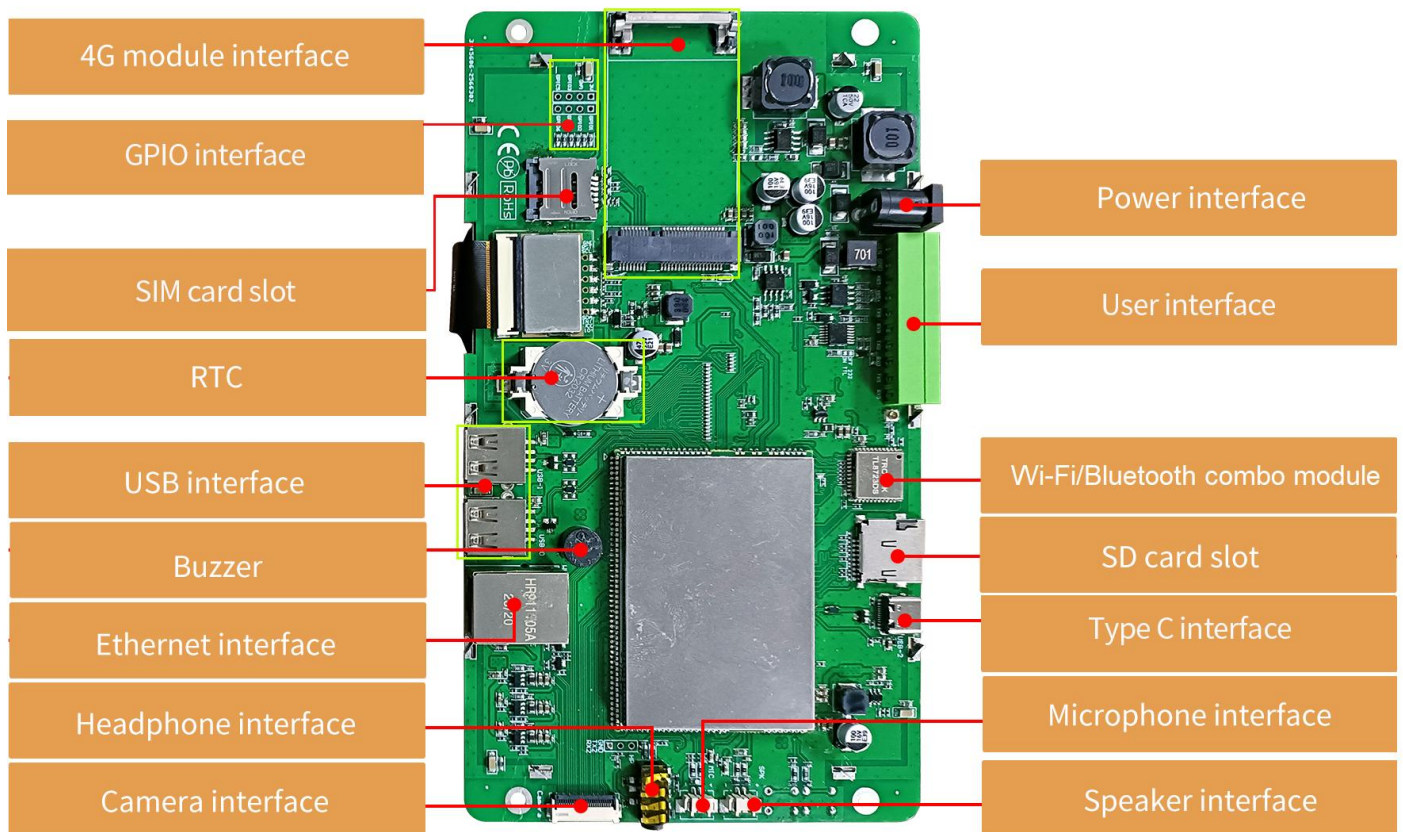
● **Development Platform**

Development	
Qt	QtCreator2.7.2 and above

● **Packing Capacity & Dimension**

Dimension	
Dimension	190.50(W)×105.41(H)×24.37(T)mm
Net Weight	340g
Packing Capacity	

Model	Size	Layer	Quantity/Layer	Quantity (Pcs)
Carton1：	220mm(L)×160mm(W)×47mm	-	-	-
Carton2：	250mm(L)×200mm(W)×80mm	2	1	2
Carton3：	320mm(L)×270mm(W)×80mm	2	2	4
Carton4：	450mm(L)×350mm(W)×300mm	1	10	10
Carton5：	600mm(L)×450mm(W)×300mm	1	20	20

Definition	Pin#	IO	Description
VIN	1	P	Power Input
GND	2	P	GND
485−	3	B	UART 7:RS485−
485+	4	A	UART 7:RS485+
TX9	5	O	UART 9 Output
RX9	6	I	UART 9 Input
TX0	7	O	UART 0 Output
RX0	8	I	UART 0 Input
TX5	9	O	UART 5 Output
RX5	10	I	UART 5 Input
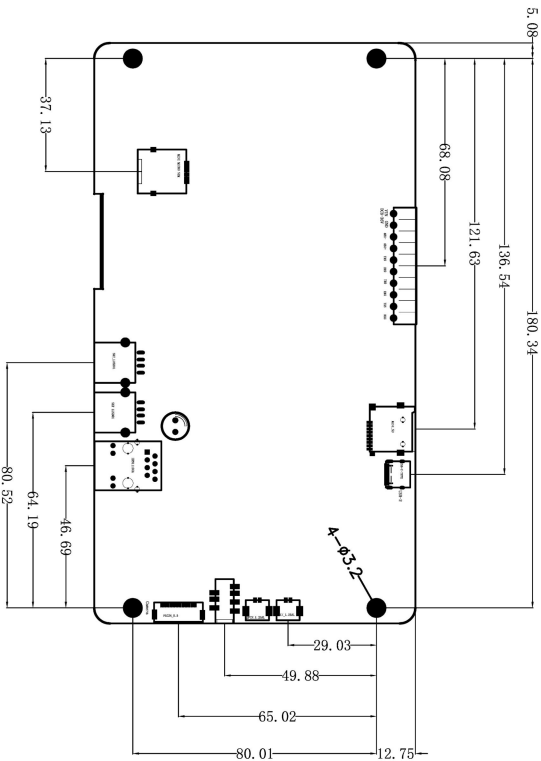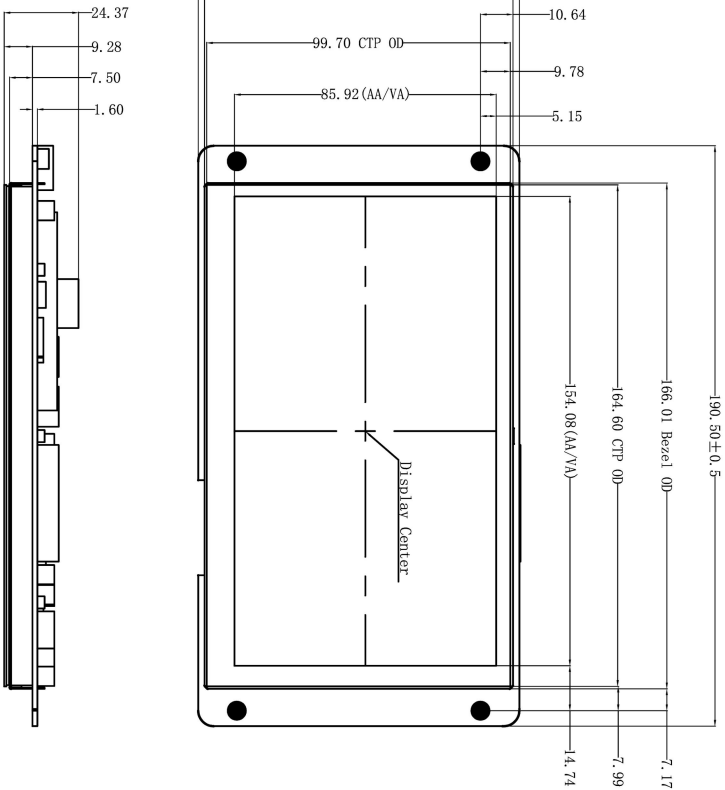
Location hole is used as position reference.

Unmarked Tolerance is +/−0.3mm

Active area is marked in Dash lines

Model		DMG10600T070_40WTC		
Drawing	A 4	Drawn	DWIN	Date	2024.01.26
Scale	1:1	Review		Date
Unit	MM	Approval		Date

DWIN Technology

Revision Records

Rev.	Revise Date	Content	Editor
00	2025-02-17	First Edition	Chen
01	2025-03-12	Add the description of Bluetooth	Chen

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