

DMG10600T101_43WTCZOS-1



System Hardware

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

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
Viewing Area (VA)	222.70mm (W)×125.30mm (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	200nit	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	9.0	12.0	36.0	V

Recommended power supply:12V 1A DC.

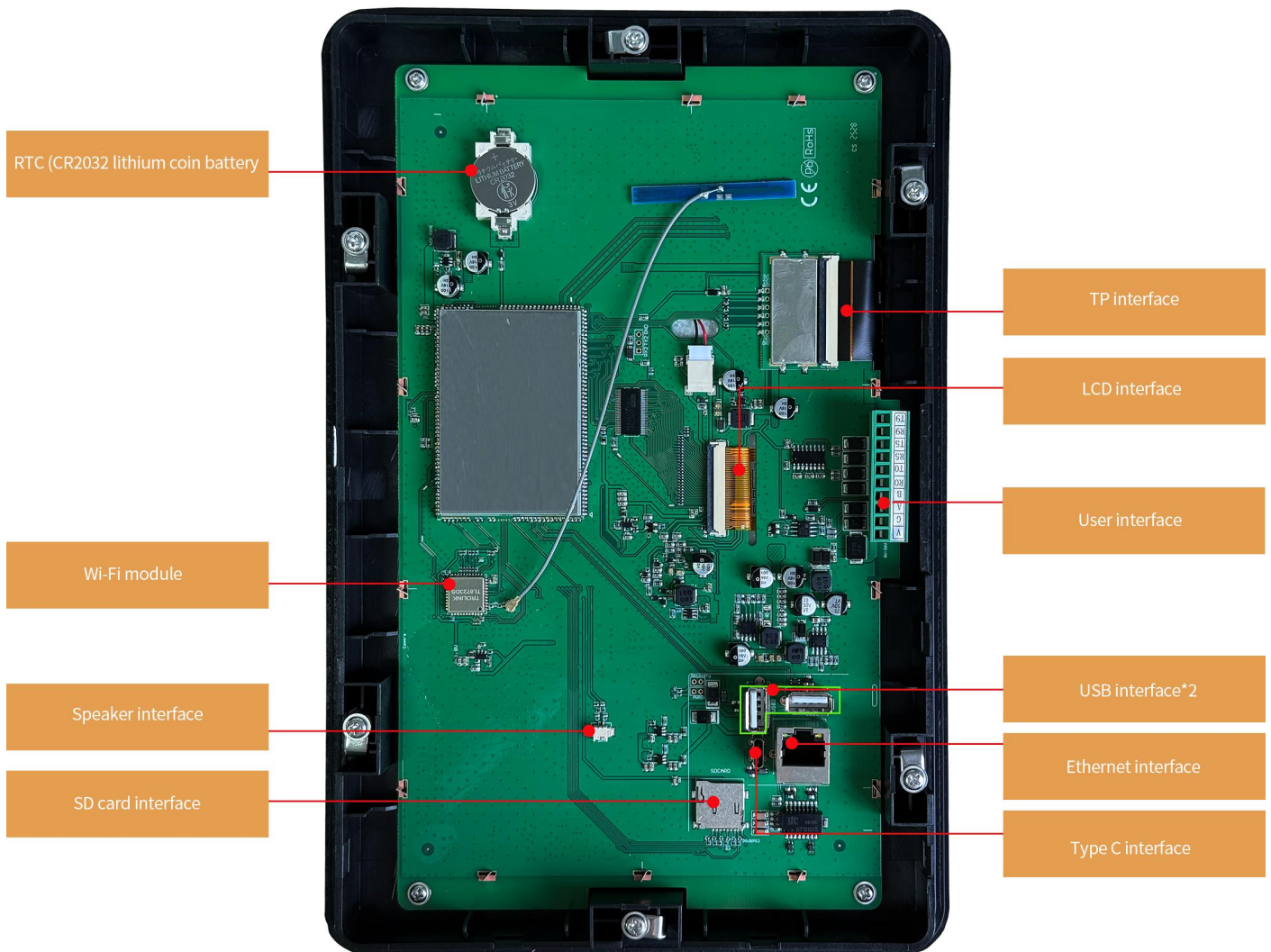
Environment & Reliability Test

Properties	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-30	25	80	℃
Storage Temperature	-	-30	25	80	℃
Working Humidity	25℃	10%	60%	90%	RH
Conformal Coating	Y				
ESD	Air: ±8KV, contact: ±6KV				

Additional cooling required for operation above 80℃.

Peripheral and Interfaces

Properties	Description
User Interface	10Pin_3.81mm Vertical socket
COM	RS232*2 (COM5 & COM9), RS485*1(COM8), TTL*1 (COM0)
Wi-Fi	IEEE 802.11b/g/n, 2.4GHz, Wi-Fi 4
Bluetooth Version	BT4.2
USB	USB 2.0*1 (HOST), Type C*1 (OTG)
Speaker	2Pin_1.25mm interface *1
4G Module	Factory not configured, customizable to add
SD card	Max. 64G
Ethernet	10/100Mbps
RTC	Accuracy: $\pm 20\text{ppm @}25^{\circ}\text{C}$

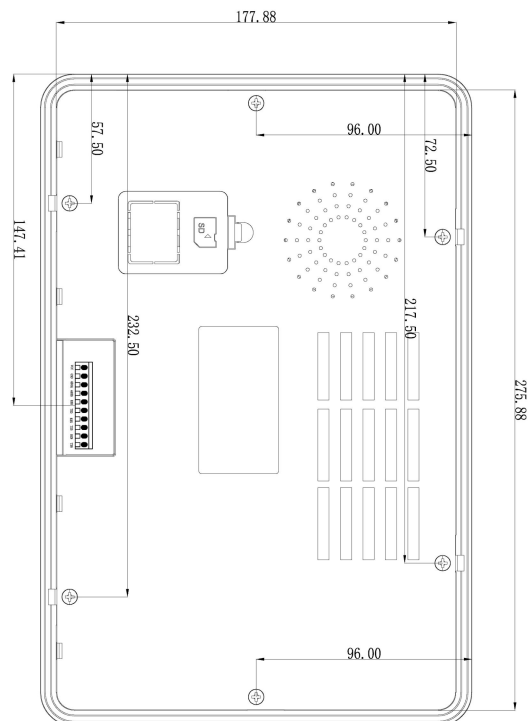
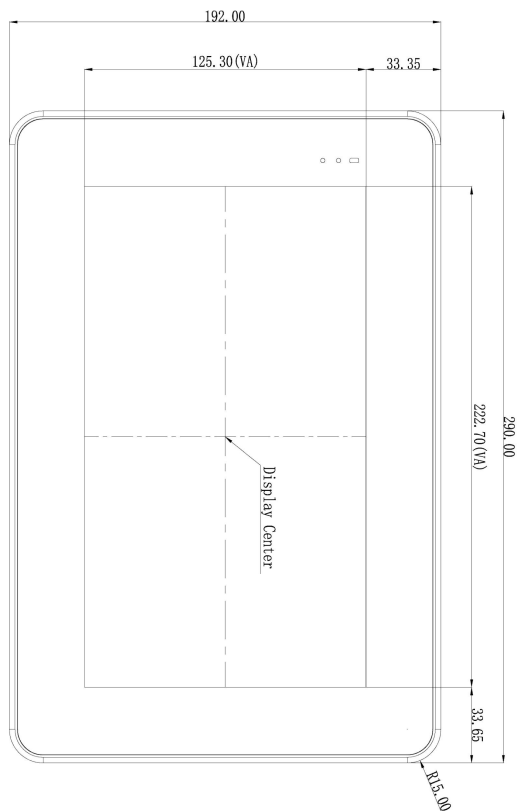


● Development Platform

Development	
Linux	Debian 10

● Packing Capacity & Dimension

Dimension				
Dimension	290.00(W)×192.00(H)×29.50(T)mm			
Net Weight	1095g			
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	10	10



Definition	Pin#	IO	Description
VCC	1	P	Power Input
GND	2	P	GND
485A	3	A	RS485+
485B	4	B	RS485-
RX0	5	I	UART 0 Input
TX0	6	O	UART 0 Output
RX5	7	I	UART 5 Input
TX5	8	O	UART 5 Output
RX9	9	I	UART 9 Input
TX9	10	O	UART 9 Output

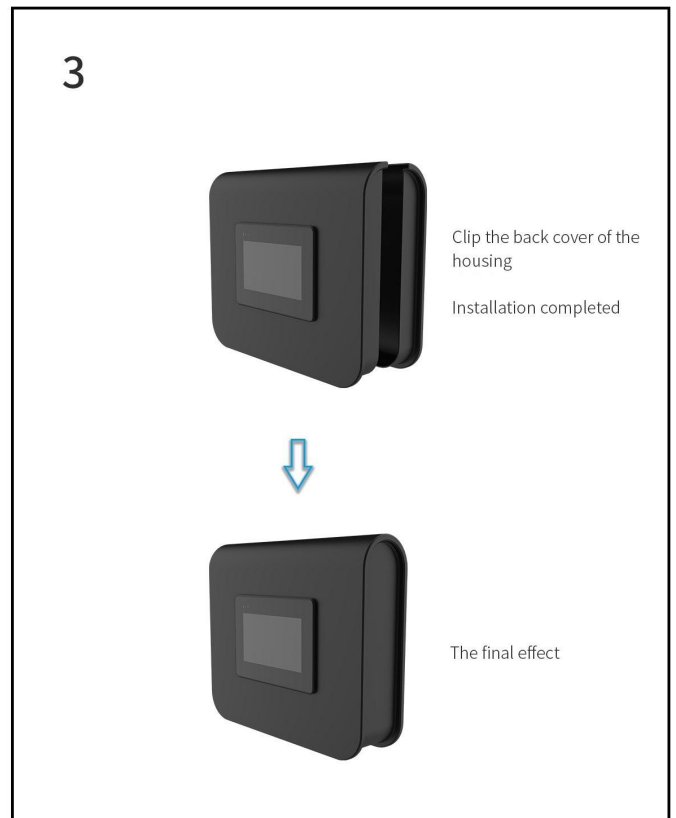
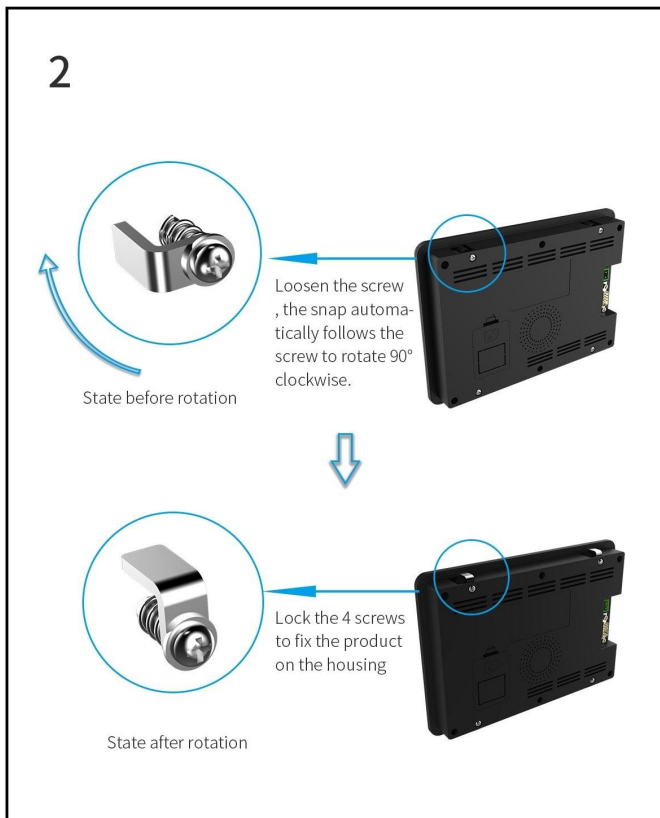
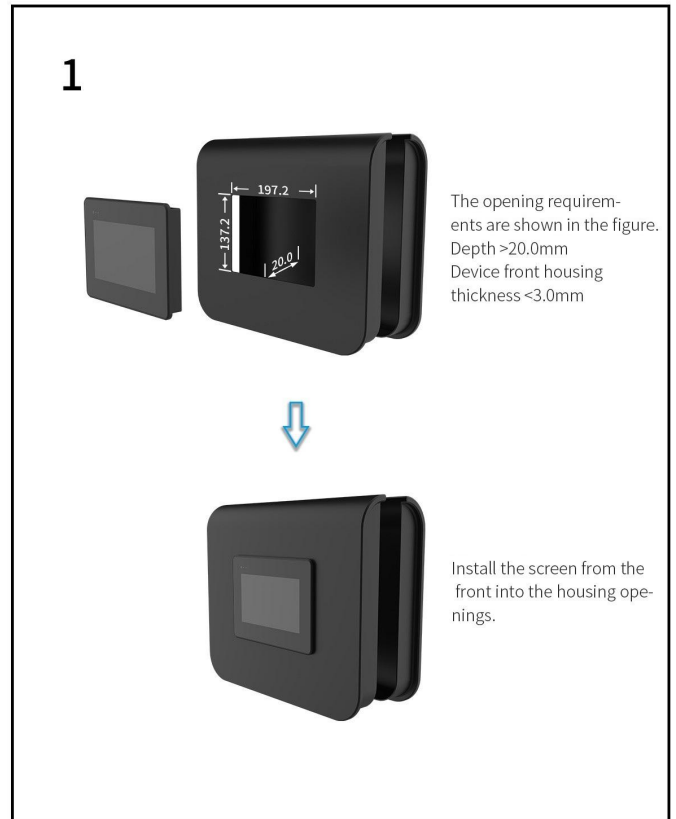
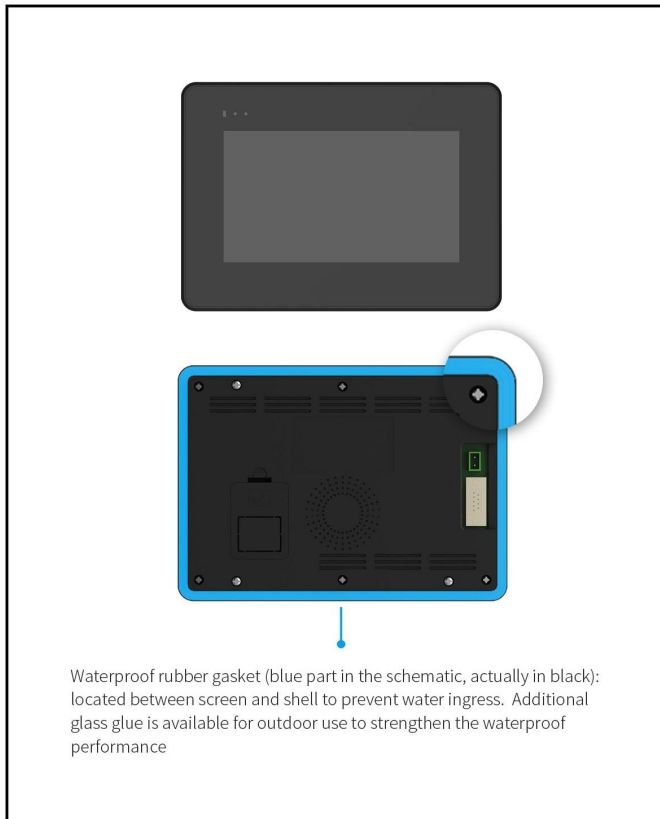
Location hole is used as position reference.

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

Active area is marked in Dash lines

Model	DMG10600T101_43WTCZOS-1					DWIN Technology			
Drawing	A 4	Drawn	G. Y	Date	2025.05.28				
Scale	1 : 1	Review		Date					
Unit	MM	Approval		Date					

Installation Schematic



● Revision Records

Rev.	Revise Date	Content	Editor
00	2025-08-29	Initial release	Chen

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

DWIN Technology Technical Document

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