DMG10600T070_31WTC

System Hardware

Properties	Parameters
Motherboard Level	Industrial-grade
CPU	RK3566, Quad-core ARM Cortex-A55 1.8GHz Processor
OS	Android 11
RAM	2Gbytes LPDDR4
Storage	8Gbytes eMMC

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)	154.20mm(W)×85.88mm (H)	-
Viewing Area (VA)	155.00mm(W)×87.50mm (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	9.0	12.0	36.0	V
Recommended power supply:12V 1A DC.				

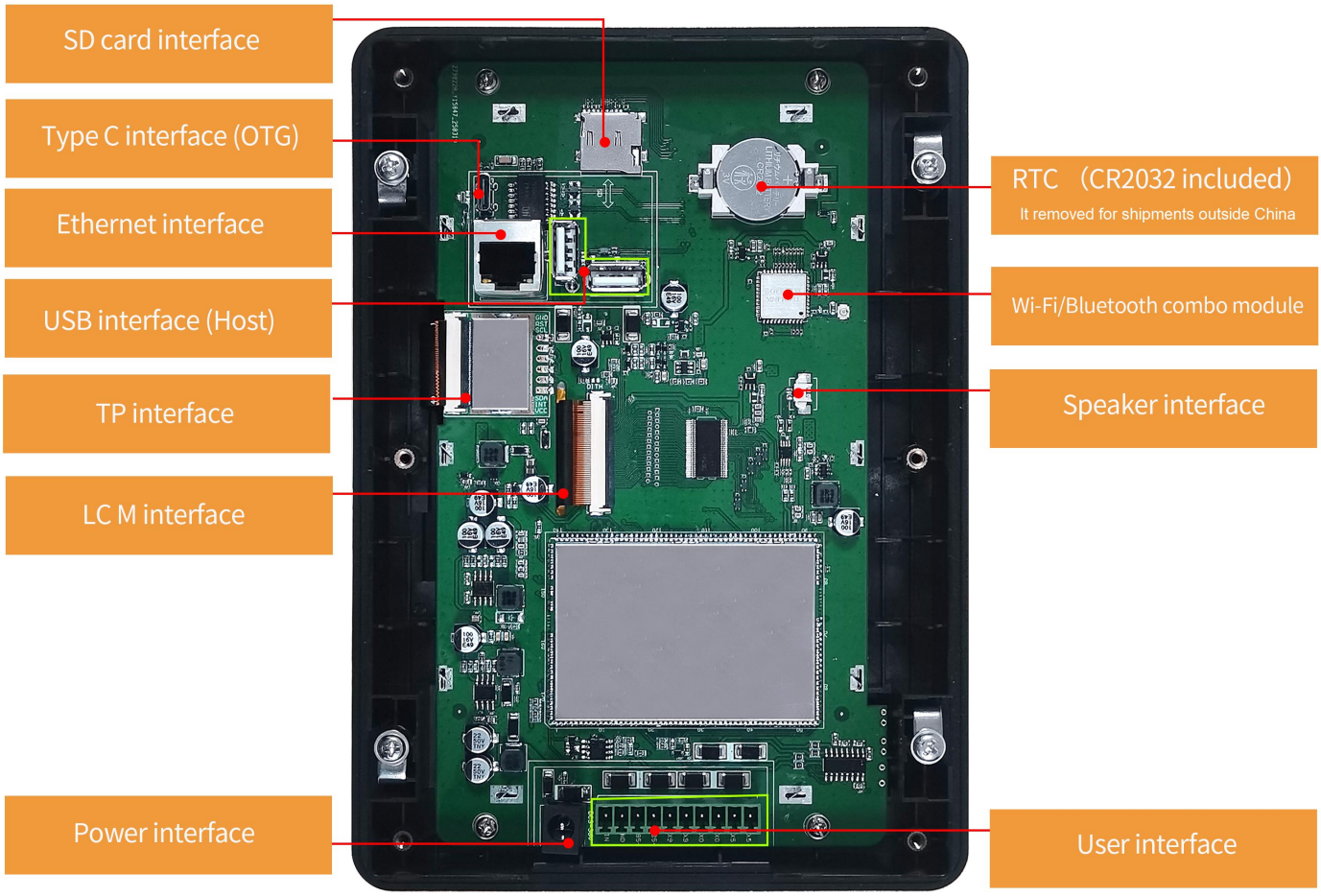
Environment & Reliability Test

Properties	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	65	℃
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				

CE Certification	Y

Peripheral and Interfaces

Properties	Description
User Interface	10Pin_3.81mm vertical socket, power interface (3PIN_Φ2.0DH)
COM	RS232*2 (COM5 & COM9), RS485*1 (COM7), TTL*1 (COM0)
USB	USB 2.0 *2 (HOST), Type C *1 (OTG)
Speaker	2Pin_1.25mm interface *1
SD card	Max. 64G
LAN	10/100Mbps
Wi-Fi	IEEE 802.11b/g/n, 2.4GHz, Bluetooth
Bluetooth Version	4.2
RTC	Accuracy: ±20ppm @25℃

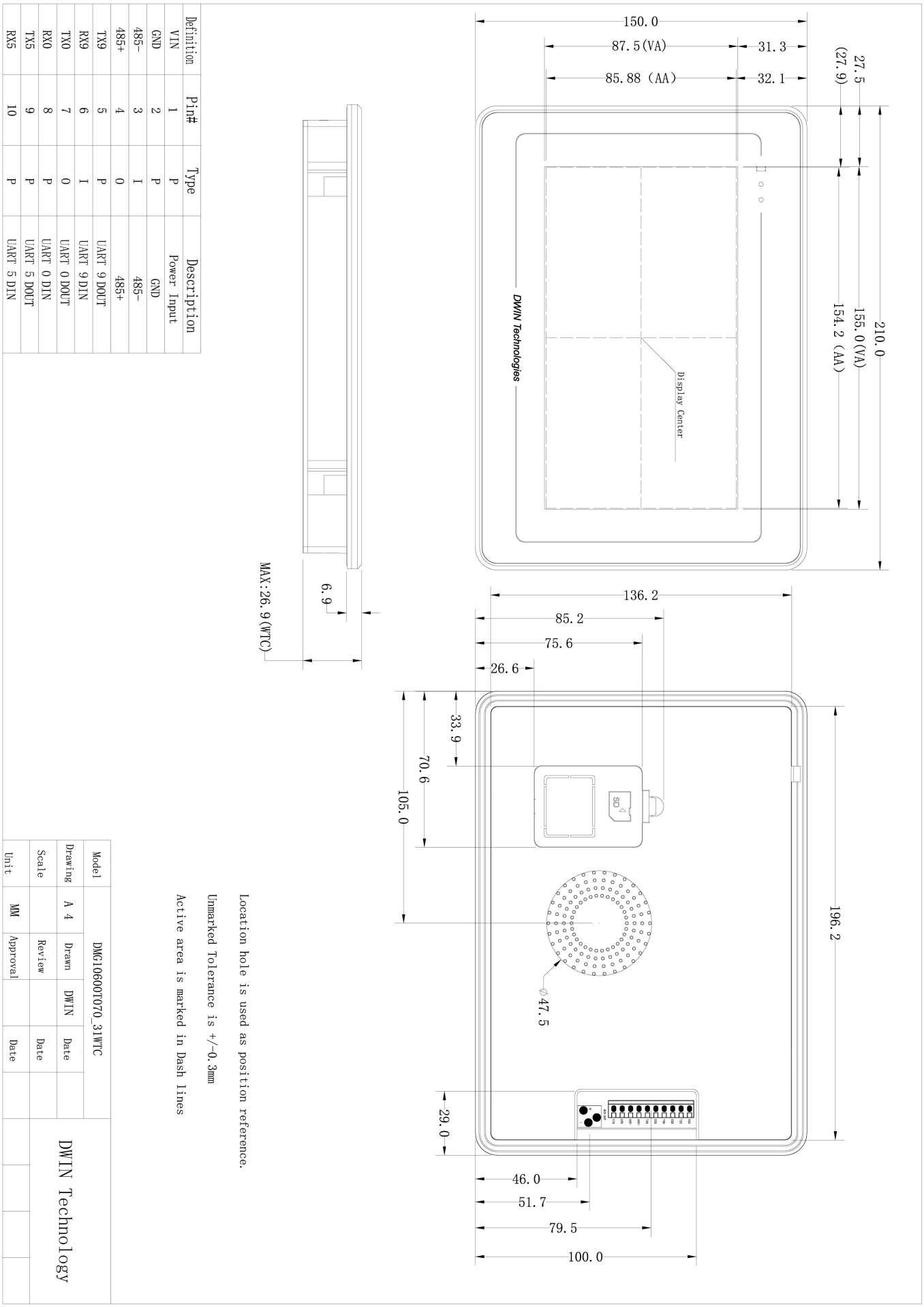


Development Platform

Development	
Android	Java, Kotlin, C++

Packing Capacity & Dimension

Dimension				
Dimension	210.00(W)×150.00(H)×26.90(T)mm			
Net Weight	-			
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	-	-	-
Carton4：	450mm(L)×350mm(W)×300mm	-	-	-
Carton5：	600mm(L)×450mm(W)×300mm	1	30	30



Definition	Pin#	Type	Description
VIN	1	P	Power Input
GND	2	P	GND
485-	3	I	485-
485+	4	O	485+
TX9	5	P	UART 9 DOUT
RX9	6	I	UART 9 DIN
TX0	7	O	UART 0 DOUT
RX0	8	P	UART 0 DIN
TX5	9	P	UART 5 DOUT
RX5	10	P	UART 5 DIN

Location hole is used as position reference.

Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines

Model	DMG10600T070_31WTC				
Drawing	A 4	Drawn	DWIN	Date	
Scale		Review		Date	
Unit	MM	Approval		Date	

DWIN Technology

Revision Records

Rev.	Revise Date	Content	Editor
00	2025-04-17	Initial release	Chen

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