DMG19108C156_32WTC

System Hardware

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

Display Parameters

Properties	Parameters	Description
Size	15.6 inch	-
Active Area (AA)	343.2mm (W)x192.6mm (H)	-
Viewing Area(VA)	342.2mm (W)x191.6mm (H)	-
Resolution	1920×1080	-
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

Power Supply

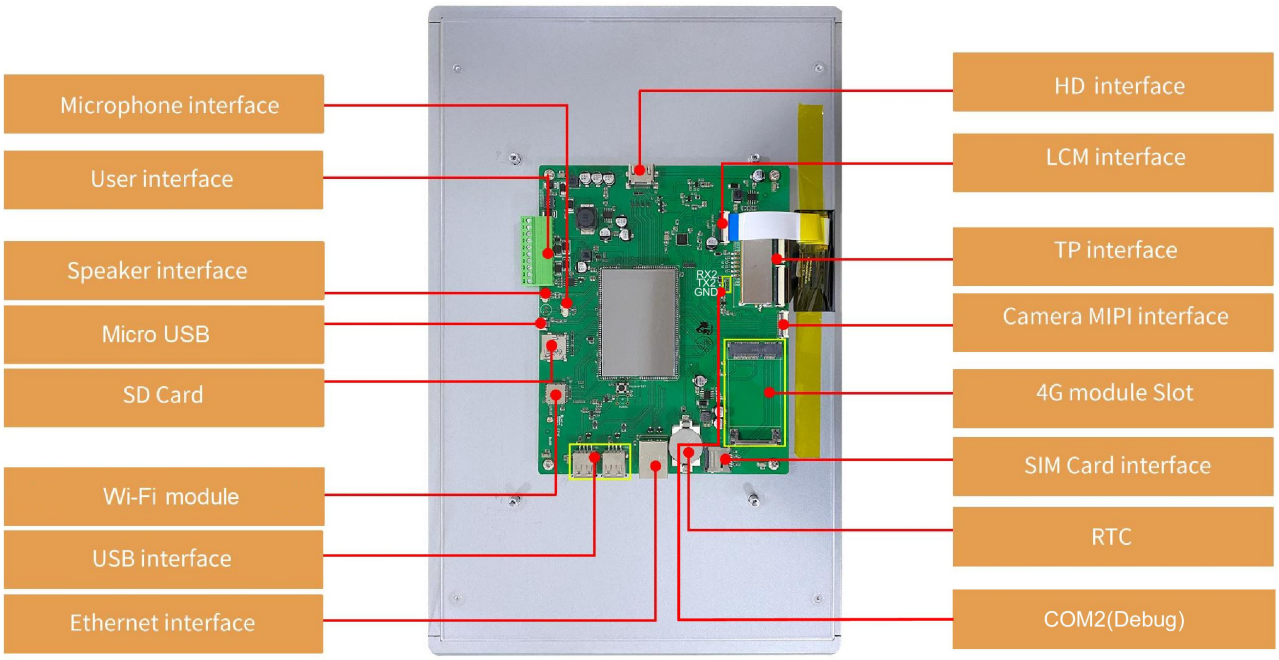
Properties	Min	Typ	Max	Unit
Power Voltage	9.0	12.0	36.0	V
Recommended power supply: 12V 1A DC.				

Environment & Reliability Test

Properties	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	65	℃
Storage Temperature	-	-20	25	65	℃
Working Humidity	25℃	10%	60%	90%	RH
Conformal Coating	Y				
ESD	Air: ±8KV; Contact: ±6KV				
Additional cooling required for operation above 65℃.					

Peripherals and Interfaces

Properties	Description
User Interface	10Pin_3.81mm Horizontal socket
COM	RS232*2(COM5 & COM9), RS485*1(COM8), TTL*1(COM0), TTL*1(COM2, debug)
Ethernet	10/100Mbps
USB	USB 2.0*2 (HOST), Micro USB*1 (OTG)
SD Card	Max 64G
RTC	Accuracy: ±20ppm @25℃
Speaker	2Pin_1.25mm interface*1
Microphone	2Pin_1.25mm interface*1
Camera	USB*1/MIPI*1(front or rear optional)
Wi-Fi	IEEE 802.11b/g/n, 2.4GHz, Wi-Fi 4
Bluetooth Version	BT4.2
4G Module	Factory not configured, customizable to add
HD Interface	Output only

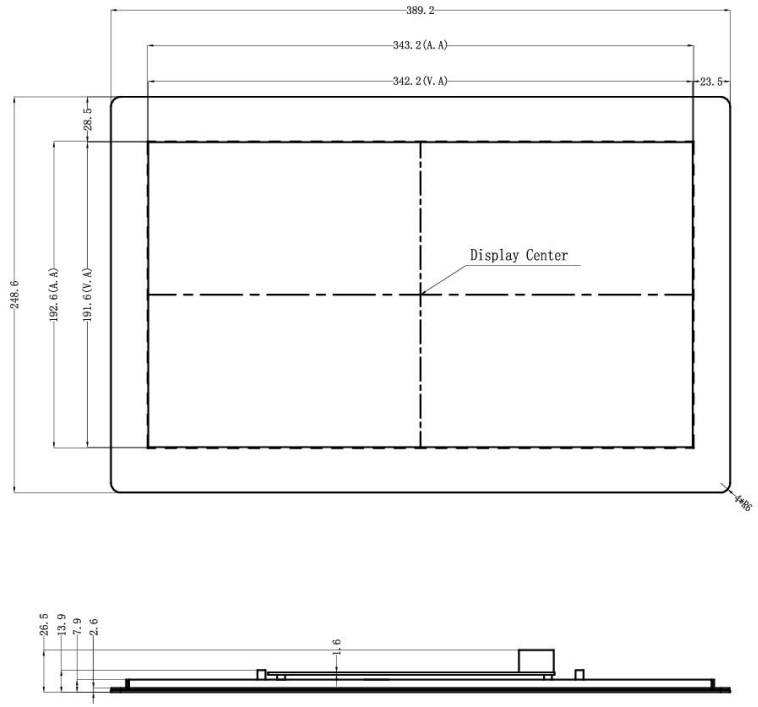


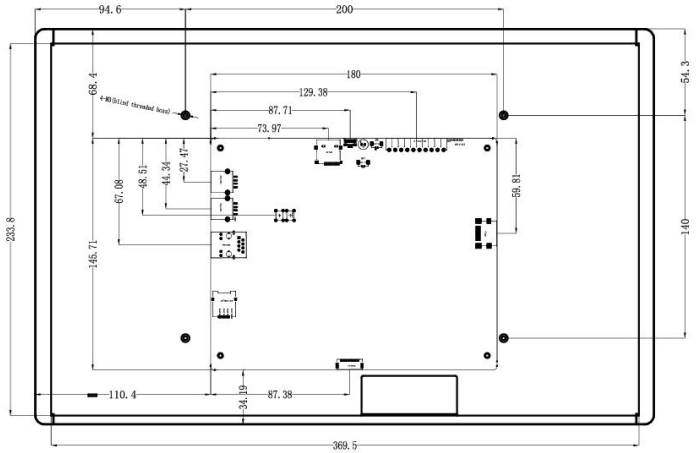
Development Platform

Development	
Android	Java, Kotlin, C++

Packing Capacity & Dimension

Dimension				
Dimension	389.2(W)*248.6(H)*26.5(T)mm			
Net Weight	-			
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)	-	-	-
Carton4:	525mm(L)*330mm(W)*80mm(H)	-	-	-
Carton5:	450mm(L)*350mm(W)*300mm(H)	-	-	-
Carton6:	570mm(L)*340mm(W)*385mm(H)	1	5	5





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

Location hole is used as position reference.

Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines

Model	DMG19108C156_32WTC					DWIN Technology
Drawing	A 4	Drawn	G.Y	Date	2026.01.22	
Scale	1:1	Review		Date		
Unit	MM	Approval		Date		

Revision Records

Rev.	Revise Date	Content	Editor
00	2023-06-20	First edition	YML
01	2023-08-07	Modify the WIFI module information	YML
02	2023-12-07	Camera MIPI interface was available	YML
03	2024-12-31	Modify the voltage value range, add development method	Chen
04	2025-03-12	Add the description of Bluetooth	Chen
05	2025-03-28	Update the rang of temperature	Chen
06	2025-06-17	Update the description of Wi-Fi module	Chen
07	2026-01-30	Update dimensional drawings	Chen

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