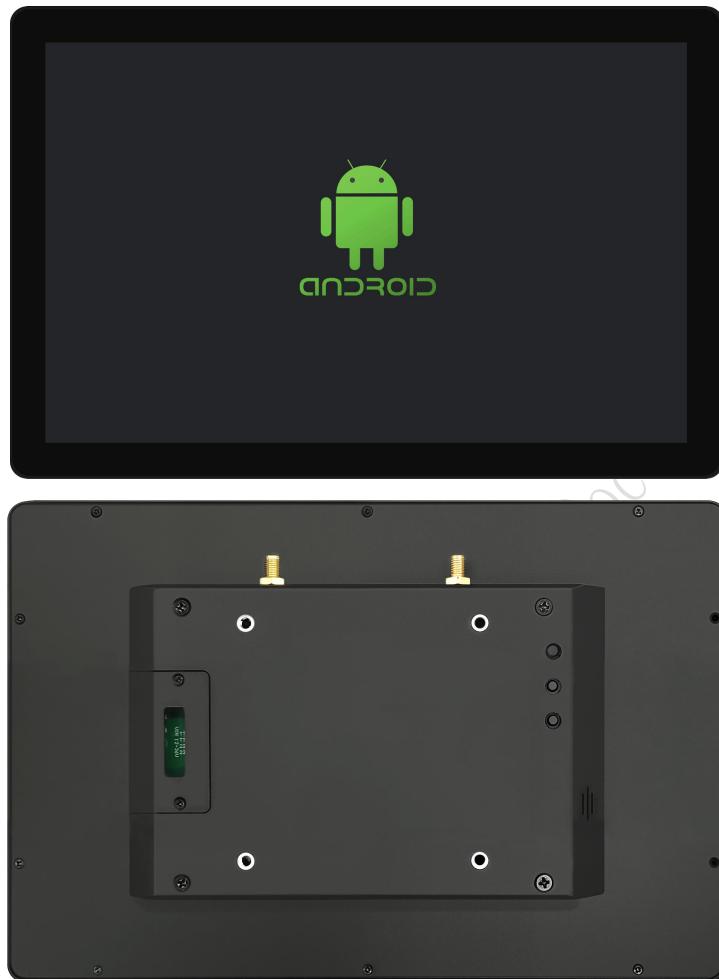


DMG12800C101_A1WTC



- **System Hardware**

Properties	Parameters
Motherboard Level	Commercial-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	10.1 inch	-
Viewing Area (VA)	216.58mm(W)×135.36mm (H)	-
Resolution	1280×800	-
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	300nit	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
TP Structure	G+G structure with tempered glass surface, the bonding of the TFT LCD to the touch panel with OCA process.

- **Power Supply**

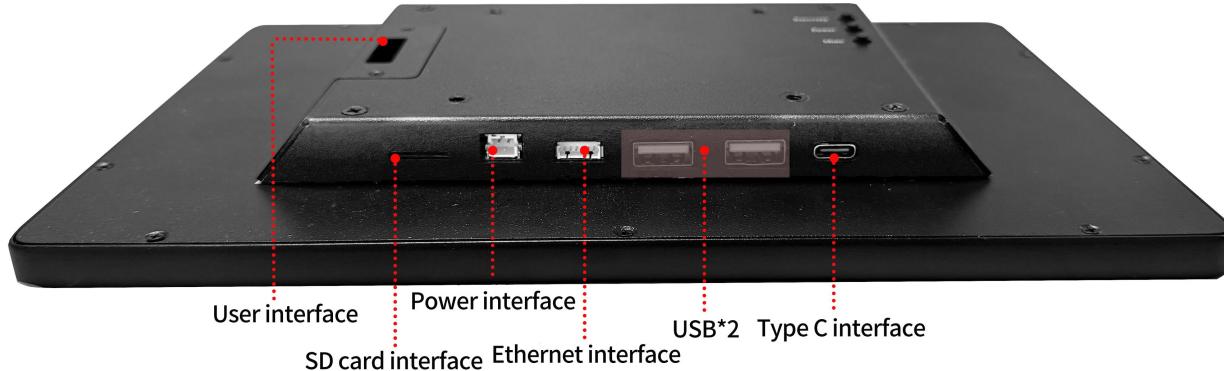
Properties	Min	Typ	Max	Unit
Power Voltage	12.0	12.0	36.0	V
Recommended power supply: 12V 1A DC.				

- **Environment & Reliability Test**

Properties	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	0	25	50	°C
Storage Temperature	-	0	25	50	°C
Working Humidity	25°C	10%	60%	90%	RH
Conformal Coating		Y			
Enclosure		Aluminum enclosure			
ESD		Air: ±8KV			
RE		Class B			
Additional cooling required for operation above 50°C.					

- **Peripheral and Interfaces**

Properties	Description
User Interface	8Pin_2.0mm socket*1
Power Interface	2Pin_2.0mm interface*1
COM	RS232*1 (COM5), TTL*1 (COM0)
Ethernet Interface	6Pin_1.25mm interface*1, 10/100Mbps
USB	USB *2 (HOST), Type C*1 (OTG)
SD Card	Max 64G
Wi-Fi	IEEE802.11b/g/n, 2.4 GHz, IEEE802.11a/n/ac, 5 GHz Support Wi-Fi 5
Bluetooth Version	BT4.2
RTC	Accuracy: ±20ppm @25°C
Speaker	2Pin_1.25mm interface*1
Keys	Recovery, Power, Mute



- **Development Platform**

Development	
Android	Java, Kotlin, C++

- **Packing Capacity & Dimension**

Dimension				
Dimension	240.03(W)×158.83(H)×22.90(T)mm			
Net Weight	1007.2g			
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

- **Standard Accessories**

Accessories Name	Description
POE+DC cable	POE & DC separate power supply, 35cm length, 5mm diameter, white color



POE+DC cable diagram

- **Optional Accessories**

Accessories Name	Description
External Wi-Fi Antenna	Black, antenna (Qty:2)

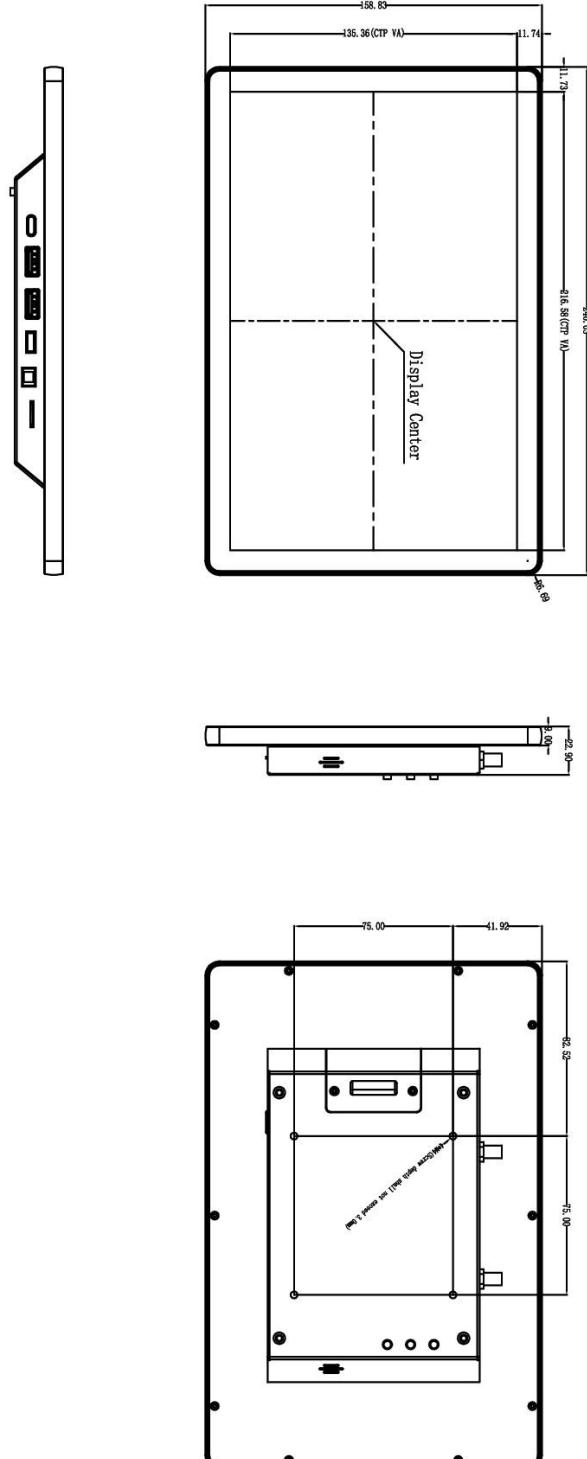
Definition	Pin#	10	Description
VIN	1	P	Power input
VIN	2	P	Power input
TX0	3	0	UART 0 DOUT
RX0	4	1	UART 0 DIN
TX5	5	0	UART 5 DOUT
RX5	6	1	UART 5 DIN
GND	7	P	GND
GND	8	P	GND

Location hole is used as position reference.
 Unmarked Tolerance is +/- 0.3mm
 Active area is marked in Dash lines

Model: DMG12800C101_A1WTC

Drawing: A 4 Draw: G.Y Date: 2025.11.10

Scale: 1:1 Review: Date: Unit: MM Approval: Date:



● Revision Records

Rev.	Revise Date	Content	Editor
00	2025-12-31	Initial release	Chen Xian

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