

DMG19108C156_40WTCZOS-1



● System Hardware

Properties	Parameters
Motherboard Level	Commercial-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	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

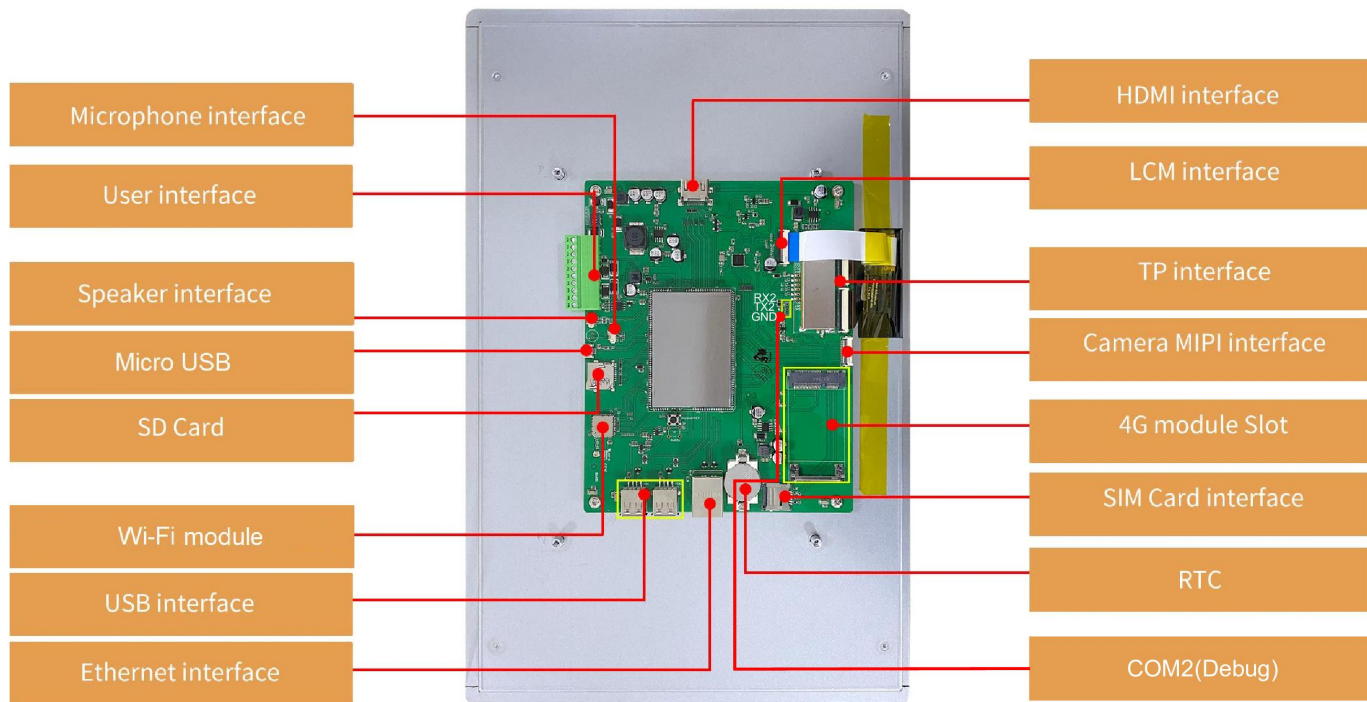
Properties	Min	Typ	Max	Unit
Power Voltage	9.0	12.0	36.0	V
Recommended power supply: 12V 1A DC				

● Environment & Reliability Test

Properties	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	65	℃
Storage Temperature	-	-30	25	80	℃
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: $\pm 20\text{ppm @}25^{\circ}\text{C}$
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
HDMI	23PIN_HDMI_SH

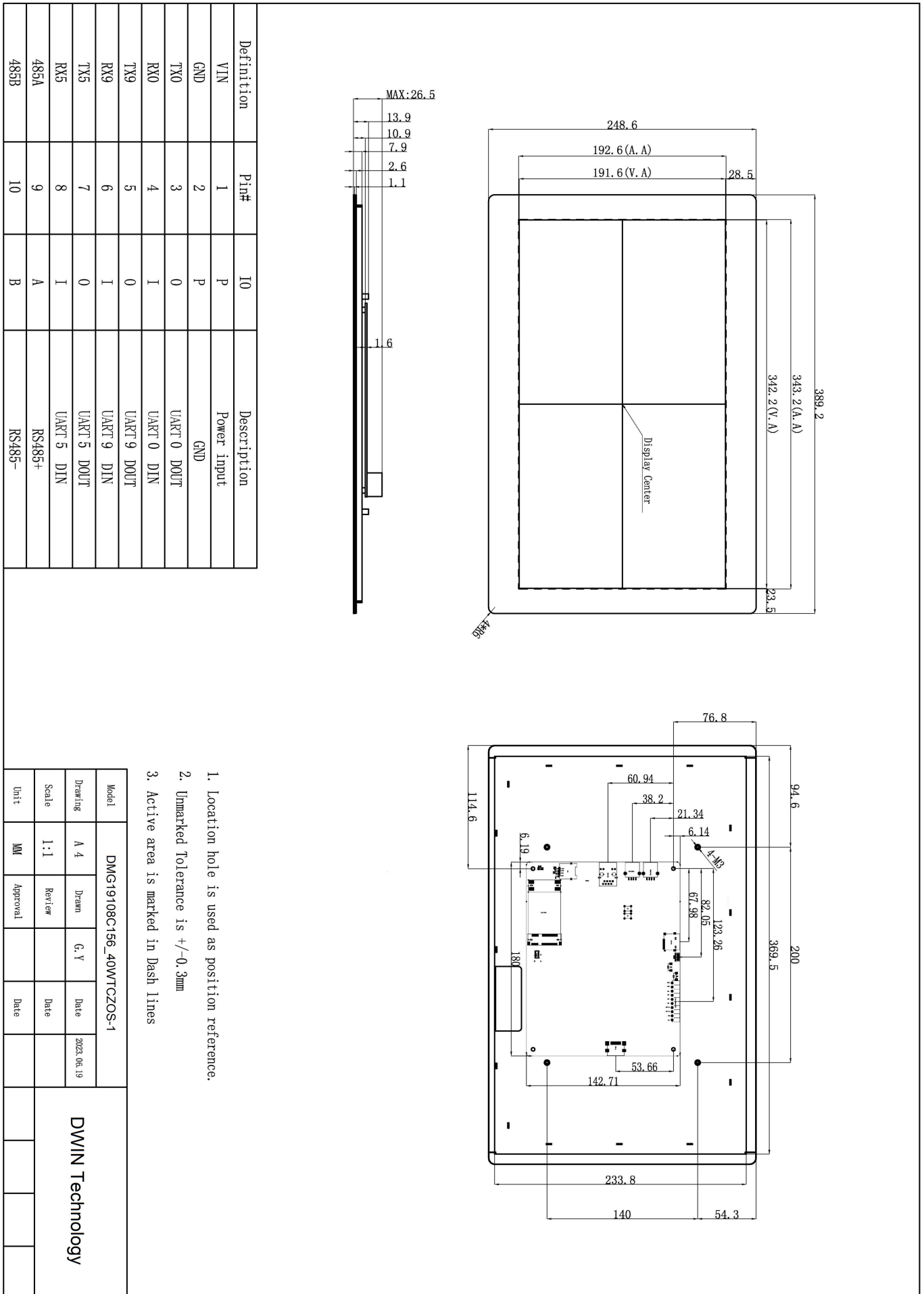


Development Platform

Development	
Linux	Debian 10

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)	1	1	1
Carton5:	450mm(L)*350mm(W)*300mm(H)	-	-	-
Carton6:	570mm(L)*340mm(W)*385mm(H)	1	5	5



Revision Records

Rev.	Revise Date	Content	Editor
00	2024-10-12	First edition	Chen
01	2025-03-13	Add the description of Bluetooth	Chen
02	2025-03-28	Update the rang of temperature	Chen
03	2025-06-17	Update the description of Wi-Fi module	Chen

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