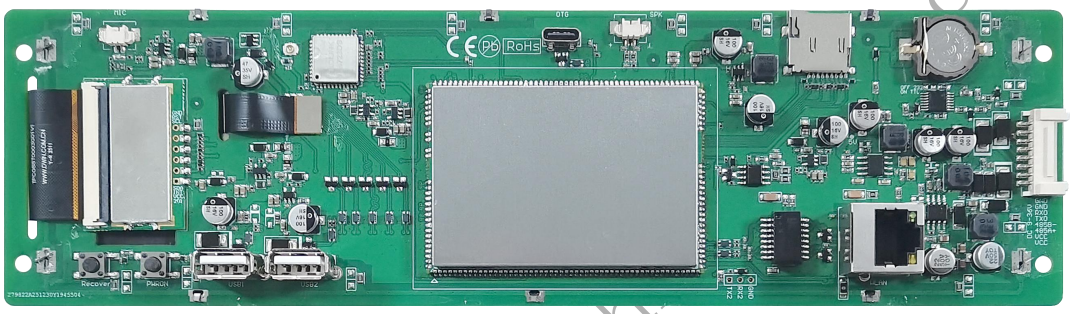
DMG19480T088_32WTC



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	8.8 inch	-
LCD Type	IPS, TFT LCD	-
Viewing Angle	85°/85°/85°/85°	Wide viewing angle, high contrast, and good color reproduction
Active Area (AA)	218.88mm (W)×54.72mm (H)	-
Viewing Area (VA)	218.88mm (W)×54.72mm (H)	
Resolution	480×1920	-
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.				

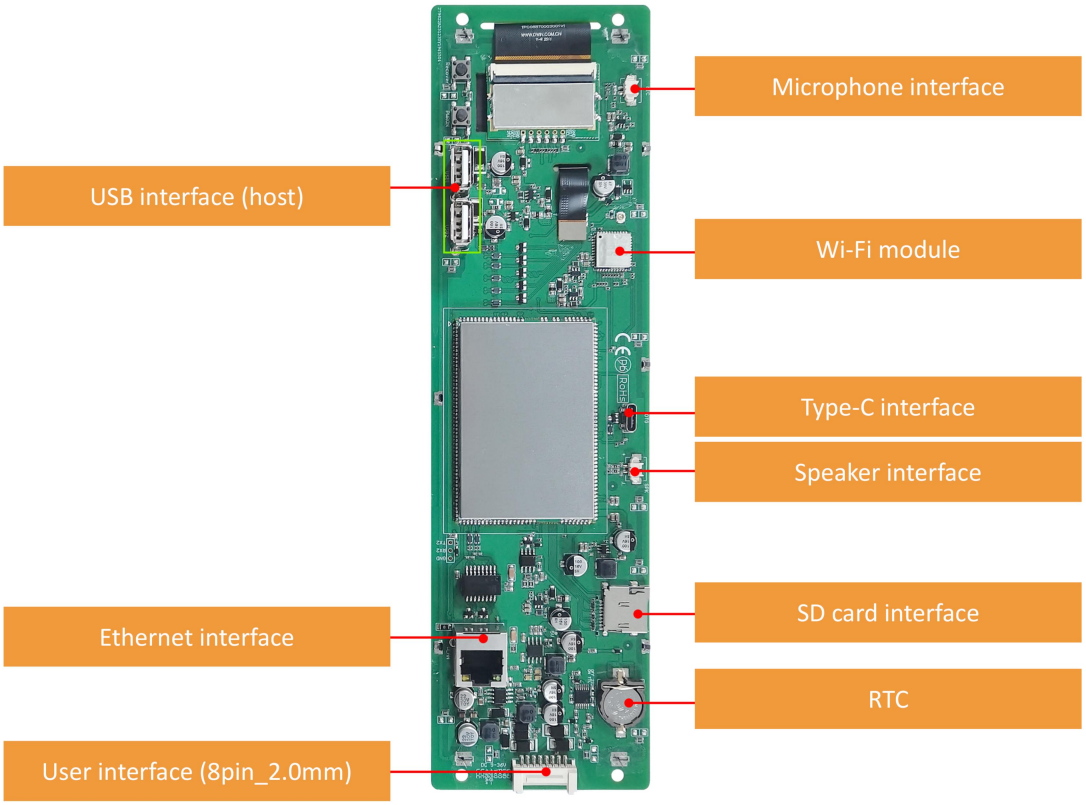
Environment & Reliability Test

Properties	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	65	℃
Storage Temperature	-	-20	25	65	℃
Working Humidity	25℃	10%	60%	90%	RH
Conformal Coating	Y				
ESD	Air: ±8kV, Contact: ±6kV				

RE	Class B
EFT	Group pulse interference ±2kV
CE	Class B
Additional cooling required for operation above 65°C.	

Peripheral and Interfaces

Properties	Description
User Interface	8Pin_2.0mm socket*1
COM	RS232/TTL*1(COM0, RS232 default), RS485*1 (COM7)
USB	USB 2.0*2 (HOST), Type C*1 (OTG)
Wi-Fi	IEEE 802.11b/g/n, 2.4GHz, Wi-Fi 4
Bluetooth Version	BT4.2
Speaker	2Pin_1.25mm interface*1
Microphone Interface	2Pin_1.25mm interface *1
RTC	Accuracy: ±20ppm @25℃
SD card	Max. 64G



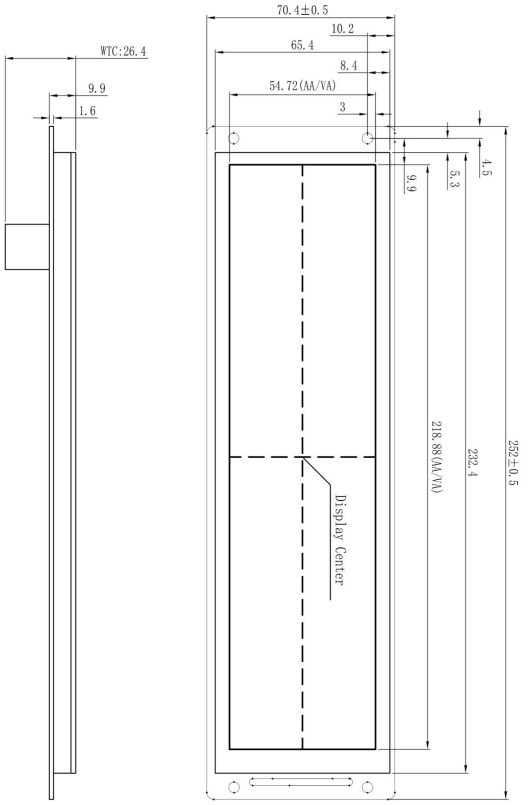
Development Platform

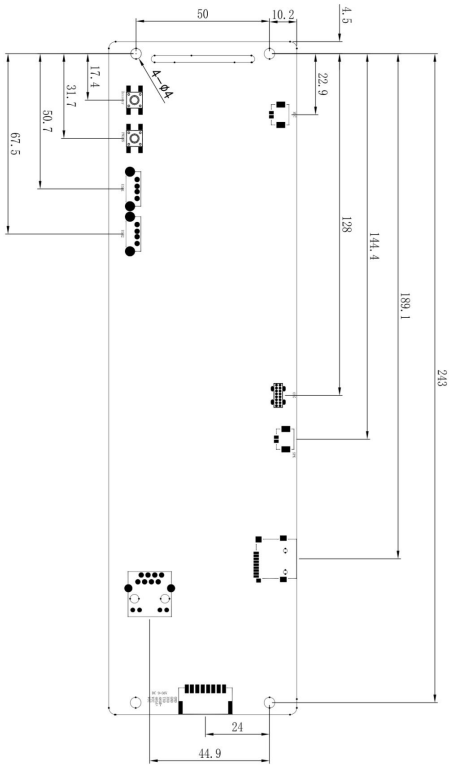
Development	
Android	Java, Kotlin, C++

Packing Capacity & Dimension

Dimension				
Dimension	252.00(W)×70.40(H)×26.4(T)mm			
Net Weight	287.2g			
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：	435mm(L)×335mm(W)×290mm	1	10	10
Carton5：	600mm(L)×430mm(W)×290mm	1	20	20

Definition	Pin#	Type(I/O)	Description
VIN	1,2	P	Power Input
485+	3	A	RS485+
485-	4	B	RS485-
TX0	5	O	UART0 Output DOUT
RX0	6	I	UART0 Input DIN
GND	7,8	P	GND





1. Location hole is used as position reference
2. Unmarked Tolerance is +/-0.3mm

Note: Active area is marked in Dash lines

Model	DMG19480T088_32WTC			DWIN TECHNOLOGY
Drawing	A4	Drawn	DWIN	Date	
Scale		Review		Date	
Unit	mm	Approval		Date	

Revision Records

Rev.	Revise Date	Content	Editor
00	2026-04-24	First Edition	Joyce

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

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