DMG10768T121_34WTC



Features:

- Industrial Android intelligent display terminal based on RK3288, running Android 8.1 OS.
- 12.1-inch, 1024*768 pixels resolution, 16.7M colors, IPS-TFT-LCD, capacitive touch.
- Compatible with 4G, WIFI, Bluetooth, microphone, camera and other rich peripherals.
- Available for USB and SD card updates.
- Available for RS232, RS485 and Ethernet port to connect and communicate with external devices.
- Available for downloading Android general apps to realize functions such as WiFi ,wired internet , browsing, music and video playback, data copy, etc.

Master Control Parameters

Properties	Parameters
Motherboard Level	Industrial
CPU	RK3288, ARM Cortex-A17, Quad-core
os	Android 8.1
FLASH	8Gbytes EMMC5.0
RAM	2Gbytes DDR3

Display Parameters

Properties	Parameters	Description
Color	16.7M (16777216) colors	24 bit color 8R8G8B
Panel Type	IPS	IPS process, TFT LCM with wide view angle
Viewing Angle	85/85/85/85 (L/R/U/D)	Best View angle: symmetrical
Active Area (A.A.)	245.76mm(W)*184.32mm(H)	1024*768 Pixel
Resolution	1024*768 Pixel	Available for 0°/90°/180°/270°rotated display
Backlight	LED	≥30000H(time of the brightness decaying to 50% on the condition of continuous working with the maximum brightness)
Brightness	350nit	100 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum, which may lead to LCD flicker.)

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Voltage & Current

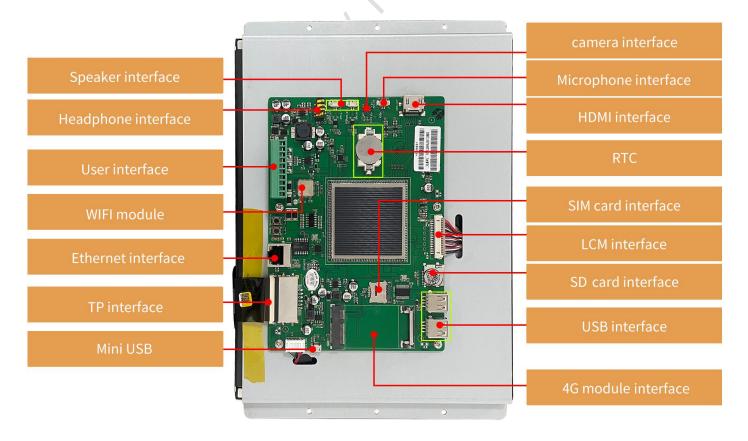
oltage & Current					1					
Properties	Conditions	Min	Тур.	Max	Unit					
Power Voltage		12.0	12.0	23	V					
• * • •	VCC = +12V, Backlight on	-	1220	-	mA					
Operation Current	VCC = +12V, Backlight off	-	300	-	mA					
Recommended power supply: 12V 1A DC										

Reliability Test

Properties	Conditions	Min	Тур.	Мах	Unit				
Working Temperature	60%RH at 12V voltage	-20	25	70	°C				
Storage Temperature	-	-30	25	80	°C				
Working Humidity	25 ℃	10%	60%	90%	RH				
Conformal Coating	Yes								
ESD	Air discharge \pm 8KV; Contact discharge \pm 6KV								
EFT	Group pulse interference ± 2 KV								

• Peripherals and Interfaces

Properties	Parameters	Description			
	2-way RS232	UART1 & UART4			
СОМ	1-way RS485	UART3			
	TTL/COMS	UART2(Debug interface)			
USB Interface	3-way	HOST*2,OTG*1			
Headphone Interface	1-way	3.5mm spacing interface			
Speaker Interface	2-way	Left & right			
Microphone Interface	1-way	- X			
Camera Interface	1-way	Mipi&USB			
SD Card Slot	1-way	Drawer type card slot(Max 64G)			
SIM Card Slot	1-way	Drawer type card slot			
4G Module	1-way	Factory not configured, customizable to add			
Ethernet	1-way	10/100Mbps			
WIFI	1-way	IEEE 802.11Bb/g/n,2.4G,Bluetooth			
RTC	Built-in	Button cell for power supply, Accuracy: ±20ppm @25 $^\circ$ C			
HDMI Interface	1-way	HDMI interface			



Disclaimer:

There are multiple parallel raw materials coexisting to guarantee the stable supply. If customers have particular raw material preferences or requirements, please contact the sales personnel.

• Interface

Properties	Conditions	Min	Тур.	Мах	Unit		
Baud Rate	User Set	2400	115200	230440	bps		
Output Voltage	Output 1	-	-5.0	-3.0	V		
(TXD)	Output 0	3.0	5.0	-	V		
Input Voltage	Input 1	-15.0	-5.0	-	V		
(RXD)	Input 0	-	5.0	15.0	V		
Baud Rate	User Set	2400	115200	921600	bps		
	Output 1	2.5	5.0	-	V		
(V_AB)	Output 0	-	-5.0	-2.5	V		
	Input 1	0	2.5	-	V		
(V_AB)	Input 0	-	-2.5	-0.2	V		
Interface	Support TTL/COMS,RS232 or RS48	35 level					
Socket 10Pin_3.81mm Socket							

• Packing Capacity & Dimension

Dimension									
Dimension	289.2(W)*204.0(H)*34.6(T)mm								
Net Weight	1270g								
Packing Capacity									
Packge Model	Size	Layer	Quantity/Layer	Quantity(Pcs)					
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	-	-					
Carton2:	250mm(L)*200mm(W)*80mm (H)	-	-	-					
Carton3:									
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	10	10					
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	16	16					

Disclaimer: The product design is subject to alternation and improvement without prior notice.

UART4 DOUT	UART4 DIN	UART1 DOUT	UART1 DIN	UART2 DOUT	UART2 DIN	485-	485+	GND	Power Input	Description	Display Center
Unit	Scale	Drawing	Mode1		Active a	Inmarked		ocation			~26.97~
MM	1:1	A 4			rea is m	Toleran		hole is			
Approval	Review	Drawn G.Y	DMG10768T121-34WTC		Active area is marked in Dash lines	Unmarked Tolerance is +/-0.3mm		Location hole is used as position reference.			
Date	Date	Date	TIC		nes			n refere			
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TX4 RX4

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Definition

Pin#

Туре

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Revision Records

Rev	Revise Date	Content	Editor
00	2022-11-28	First Edition	Meilin Yuan
01	2022-12-05	Correct Package Information	Meilin Yuan
02	2022-12-09	Properties Optimize	Meilin Yuan
03	2023-5-15	Remove the 4G module and update the physical image	YML

Please contact us if you have any questions about the use of this document or our products, or if you would like to

know the latest information about our products:

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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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