DMG10600C101_40WTC



Features:

- Commercial Linux intelligent display terminal based on RK3566, Linux version 4.19.
- 10.1-inch, 1024*600 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, Capacitive touch.
- Adopt QT environment for secondary development.
- Available for multi-language, vector font library, picture library, video library and audio library.
- Compatible with network cable connection with PC to download update project.
- Available for RS232, RS485 and Ethernet port to connect and communicate with external devices.



Master Control Parameters

Properties	Parameters
Motherboard Level	Commercial
CPU	RK3566, Cortex-A55, quad-core
Kernel Version	4.19
OS	Linux
FLASH	8Gbytes EMMC
RAM	2Gbytes LPDDR4

• Display Parameters

Properties	Parameters	Description						
Color	16.7M (16777216) colors	24 bit color 8R8G8B						
Panel Type	IPS	IPS process, TFT LCM with wide viewing angle						
Viewing Angle	85°/85°/85°/85°(L/R/U/D)	Best View: symmetrical						
Active Area (A.A.)	222.72mm (W)*125.28mm (H)	1024*600 Pixel						
Resolution	1024*600 Pixel	Available for 0°/90°/180°/270°rotated display						
Backlight	LED	≥20000H(time of the brightness decaying to 50% on the condition of continuous working with the maximum brightness)						
Brightness	200nit	100 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum, which may lead to LCD flicker.)						
Note: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.								

• Voltage & Current

Properties	Conditions	Min	Тур	Мах	Unit				
Power Voltage	<u>'</u> 0,	8.0	12.0	23	V				
Operation Current	VCC = +12V, Backlight on	-	430	-	mA				
Operation Current	VCC = +12V, Backlight off	-	160	-	mA				

Recommended power supply: 12V 1A DC

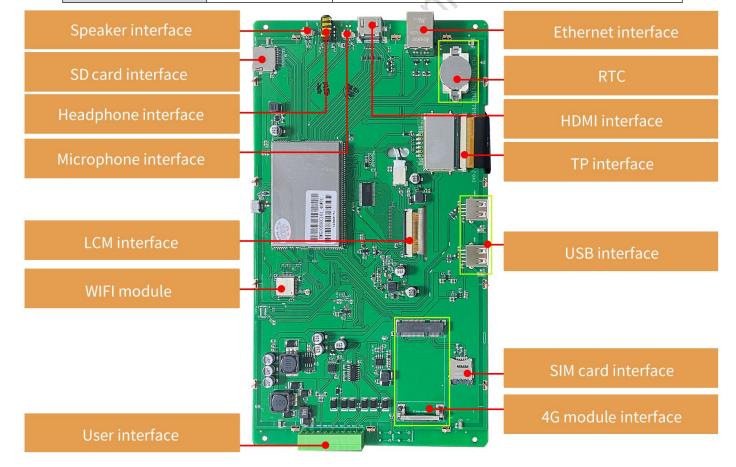
• Reliability Test

Properties	Conditions	Min	Тур	Мах	Unit °C °C		
Working Temperature	60%RH at 12V voltage	-10	25	60			
Storage Temperature	-	-20	25	70			
Working Humidity	25 ℃	10%	60%	90%	RH		
Protective Paint	Yes						
ESD	Air discharge \pm 8KV, Contact discharge \pm 4KV						
EFT	Group pulse interference ± 2 KV						

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• Peripherals and Interfaces

Properties	Parameters	Description								
	2-way RS232	UART5 & UART9								
СОМ	1-way RS485	UART8								
	1-way TTL/COMS	UART0								
USB Interface	3-way	HOST*2, OTG*1								
Headphone Interface	1-way	3.5mm spacing interface								
Speaker Interface	1-way	2Pin_1.25mm interface								
Microphone Interface	1-way	2Pin_1.25mm interface								
Camera Interface	1-way	USB, Not supported by Mipi								
SD Card Slot	1-way	Drawer type card slot (Max 64G)								
Ethernet Interface	1-way	10/100Mbps								
HDMI Interface	1-way	00								
WIFI Module	1-way	IEEE 802.11Bb/g/n,2.4G,Bluetooth								
RTC	1-way	Button cell for power supply. Accuracy: ±20ppm @25 $^\circ\!\!\!\!\!^\circ$								



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• Interface

Properties	Conditions	Min	Тур	Мах	Unit			
Baud Rate	User Set	2400	115200	230440	bps			
Output Voltage	Output 1	-	-5.0	-	V			
(TXD)	Output 0	-	5.0	-	V			
Input Voltage	Input 1	-	-5.0	-	V			
(RXD)	Input 0	-	5.0	-	V			
Baud Rate	User Set	2400 115200		921600	bps			
()/ AD)	Output 1	2.5	5.0	-	V			
(V_AB)	Output 0	-	-5.0	-2.5	V			
(V_AB)	Input 1	0	2.5	-	V			
	Input 0	-	-2.5	-0.2	V			
Interface	Support TTL/COMS,RS232 or RS485 level							
Socket	10Pin_3.81mm Socket							

Packing Capacity & Dimension

Dimension										
Dimension	257.81(W)*148.08(H)*23.20(T)mm	257.81(W)*148.08(H)*23.20(T)mm								
Net Weight	620g	620g								
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)	2	1	2						
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	10	10						
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	16	16						
	(echine									

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

TX9	RX9	TX5	RX5	TXO	RXO	48	485A	GND	VCC	Definition				
6)	(9)	(5	(5	ô	Ô	485B	5A	ND	ЭС	ition				148. 08±0. 50 144. 02 (BEZEL) 143. 00
10	9	8	7	6	υ	4	3	2	1	Pin#	7.90	~	•	
0	Ι	0	П	0	I	В	Α	Р	Р	10				
Output	Input	Output	Input	Output	Input	RS485-	RS485+	GND	Power Input	Description		-		257.81±0.50 235.97 (BEZEL) 222.72 (LCM AA)
		1	1	I	I								• •	
Unit	DCGLC	Scale	Drawing	Model		Active	Unmarke	Locatio						
MM	1:1	1.	A 4			Active area is marked in Dash lines	Unmarked Tolerance is +/-0.3mm	Location hole is used as position reference.				111. 16 		·140. 84
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Record of Revision

Ver	Revise Date	Content	Editor
00	2023-02-24	First edition	YML
01	2023-05-15	Remove the 4G module and update the physical image	YML

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