DMG10768T150_40WTC





Features:

- Industrial Linux intelligent display terminal based on RK3566, Linux version 4.19.
- 15.0-inch, 1024*768 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	Industrial
CPU	RK3566, Cortex-A55, quad-core
os	Linux 4.19
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.)	304.13mm(W) * 228.10mm(H)	1024*768 Pixel
View Area (V.A.)	305.50mm(W) * 229.50mm(H)	1024*768 Pixel
Resolution	1024*768 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)
		100 levels adjustment(It's not recommended 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.	Max	Unit
Power Voltage	<i>'-0</i> 0,	12.0	12.0	23	V
Operation Current	VCC = +12V, Max Backlight	-	1150	-	mA
	VCC = +12V, Backlight off	-	350	-	mA
Recommended power supply: 12V 1.5A DC					

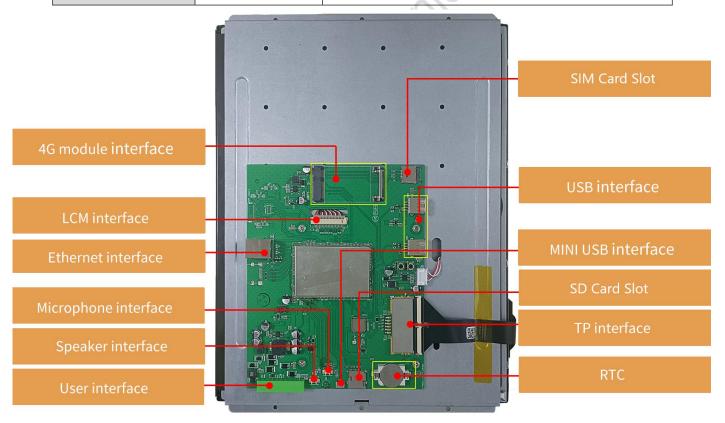
Recommended power supply: 12V 1.5A DC

Reliability Test

Properties	Conditions	Min	Тур.	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	$^{\circ}$ C
Storage Temperature	ge Temperature -		25	80	$^{\circ}$ C
Working Humidity	25 ℃	10%	60%	90%	RH
Protective Paint	Yes				
ESD	Air discharge ± 8 KV, Contact discharge ± 6 K				
EFT	Group pulse interference ± 2KV				

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	Type-A*2,MICRO*1		
Speaker Interface	1-way	2Pin_1.25mm interface		
Microphone Interface	1-way	2Pin_1.25mm interface		
Camera Interface	1-way	USB		
4G Module Interface	1-way	Factory not configured, can be customized to add		
SIM Card Slot	1-way	- <u>.</u>		
SD Card Slot	1-way	Drawer type card slot(Max 64G)		
Ethernet Interface	1-way	10/100Mbps		
WIFI Module	1-way	IEEE 802.11Bb/g/n,2.4G,Bluetooth		
RTC	1-way	Button cell for power supply. Accuracy: ± 20 ppm @25 $^{\circ}$ C		



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

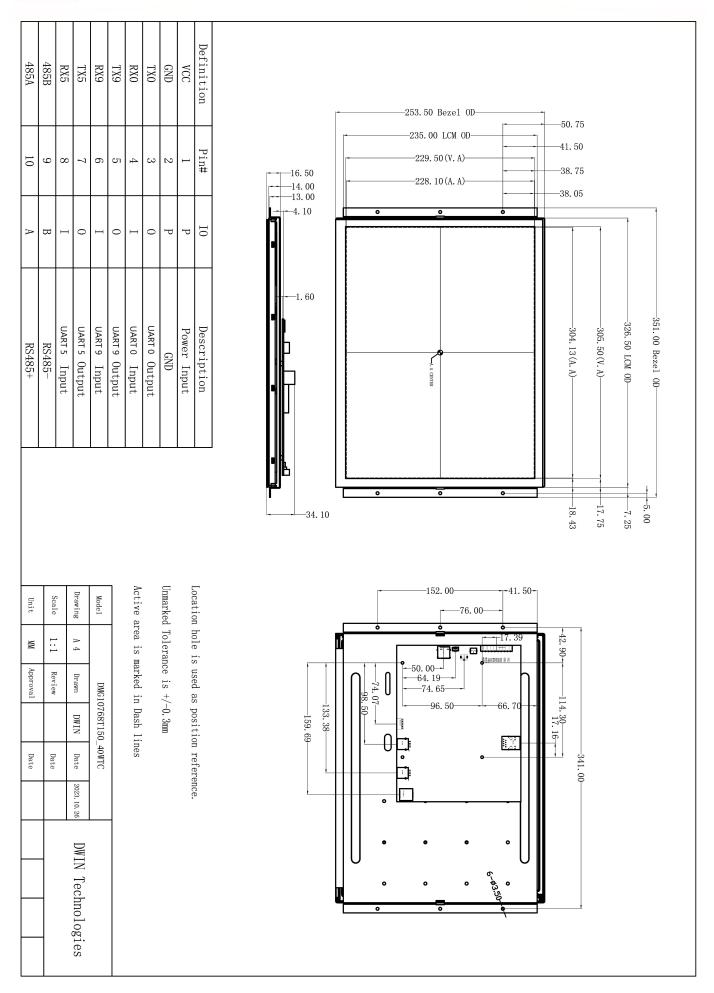
Properties	Conditions	Min	Тур.	Max	Unit
Baud Rate	User Set	2400	115200	230440	bps
Output Voltage	Output 1	-	-5.0	-	V
(TXD)	Output 0	-	5.0	-	V
Input Voltage (RXD)	Input 1	-	-5.0	-	V
	Input 0	-	5.0	-	V
Baud Rate	User Set	2400	115200	921600	bps
(V_AB)	Output 1	2.5	5.0	-	V
	Output 0	-	-5.0	-2.5	V
(V_AB)	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

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Dimension						
Dimension	351.00(W)*253.50(H)*34.10(T)mm					
Net Weight		1430g				
Packing Capacity						
Model	Size Layer Quantity/Layer Quantity(Pcs					
Carton1:	525mm(L)*330mm(W)*80mm(H)	1	1	1		
Carton2:	375mm(L)*340(W)mm*465mm(H)	6	1	6		

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

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Revision Records

Rev	Revise Date	Content	Editor
00	2023-12-19	First edition	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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