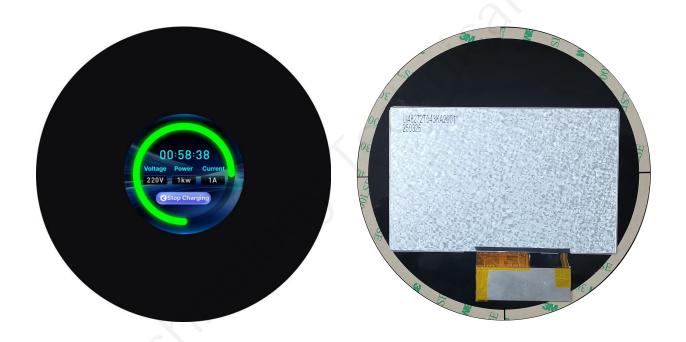
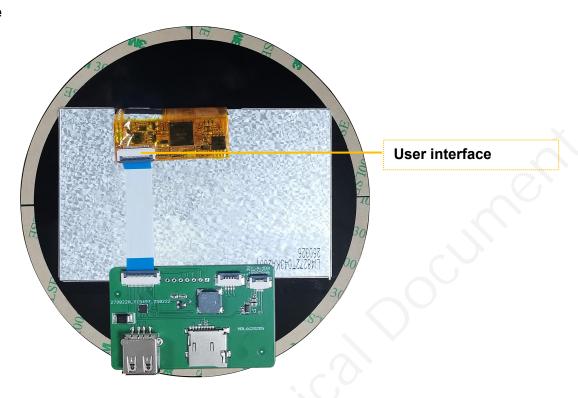
DMG48270F043_05WNZ06

Features:

- Powered by T5F0 ASIC, running DGUS II HMI platform.
- 4.3 inch, 480*272 resolution, TV-TN-TFT LCD.
- 20 pins, including UART2, SD card, Buzzer, touch screen interface.
- Supporting connected to 4-wire RTP or CTP, buzzer or speaker.



1. External interface



PIN#	Definition1	Function1	Definition2	Function2
1	VIN	Power supply, DC3.5-5.5V. IO are		
2	VIN	all at 3.3V CMOS level.)	
3	GND			
4	GND	GND		
5	GND			
6	3.3V OUT	3.3V output, maximum load of 100mA.		
7	TX2	UART2		
8	RX2	UARTZ		
9	SD_D0		TMS	
10	SD_D1	When JIOS is in the air, SD card	тск	When JIOS is shorting circuit to
11	SD_D2		TDI	ground, JTAG interface.
12	SD_D3	interface.	TDO	
13	SD_CLK		TX1	Multiplexed UART1
14	SD_CMD		RX1	Wulliplexed OANT
15	TPY1		CTP_SDA	Capacitive touch screen interface.
16	TPX1	4-wire resistive touch screen	CTP_INT	When connected to CTP, the
17	TPY0	interface	CTP_SCL	CTP_SDA and CTP_INT need to be pulled up to 3.3V by an external
18	TPX0		CTP_RST	4.7K resistance.
19	JIOS	JTAG/IO choose		
20	BUZZ	Buzzer drives output	D/A	Audio PWM DA output

2. Specification parameters

2.1 Product parameters

Main Chip	T5F0	
User Interface	20Pin_0.5mm FCC	
FLASH	8M Bytes	
UI Version	DGUS II	
Debugging Tools	HDL662SZ5 adapter board power supply	
Size	4.3 inch	
Resolution	480*272	
Viewing Area (VA) R=26.93mm		
Viewing Angle	TV viewing angle, 70°/70°/40°/30° (L/R/U/D)	
Backlight Service Life >10,000 hours		
Brightness 200nit		
Brightness Control 100-level brightness adjustment (Flickering may occur at 1%-30% of max brightness; not recommended for use in this range)		

2.2 Interface parameters

Item	Conditions	Min	Тур	Max	Unit
Baud Rate	User Set(Configure the CFG file)	3150	115200	3225600	bps
Output	Output 1	3.0	3.3	-	V
Voltage(TXD)	Output 0	-	0	0.3	V
Input	Input 1	-	-	3.3	V
Voltage(RXD)	Input 0	0	-	0.5	V
Interface	UART2: TTL;				7
Data Format	UART2: N81;				

2.3 Electrical specifications

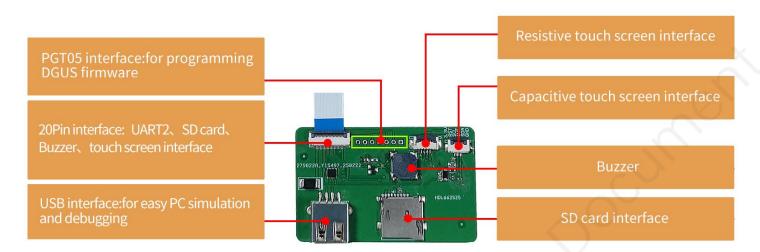
Rated Power	<2W		
Operating Voltage	3.5-5.5V, typical value of 5V.		
Operating Current	228mA@ 5V		
Recommended power supply: 5V 1A DC			

2.4 Operating environment

Operating Temperature	-10℃ to 60℃(5V @ 60% RH)
Storage Temperature	-20℃ to 70℃
Operating Humidity	10%-90%RH, typical value of 60% RH.

3. Debug

It is recommended for new users of DWIN smart LCMs to purchase official accessories. For more details, please refer to customer service center.

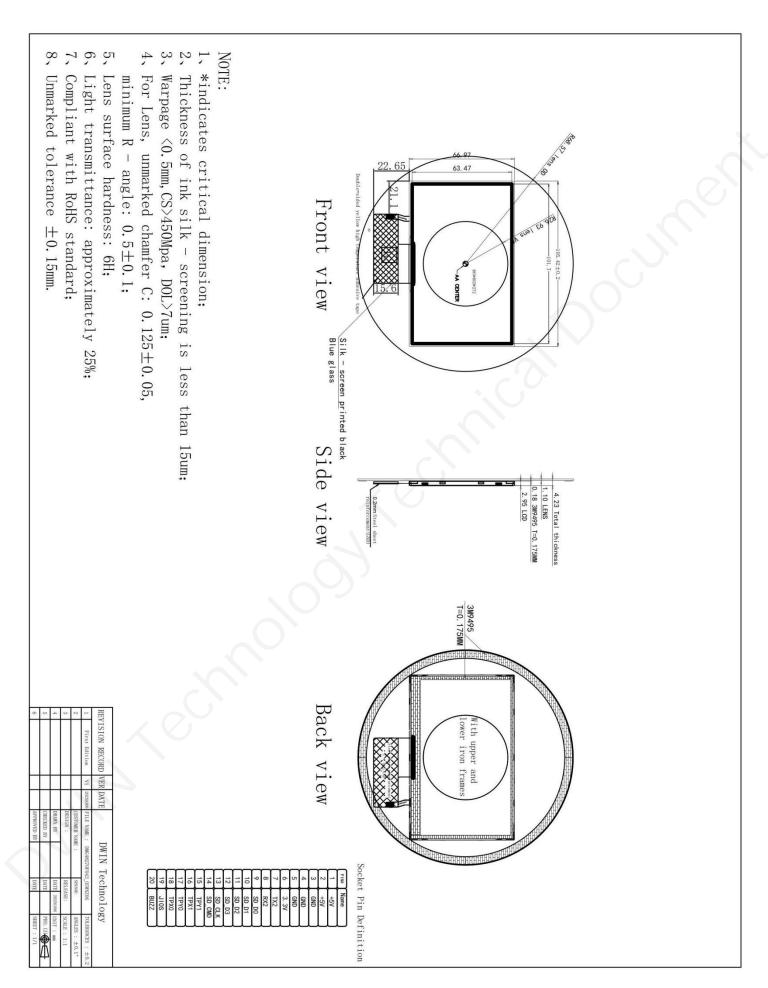


4. Packing capacity & dimension

Dimension		
Dimension	68.57mm (radius) * 4.23mm(height)	
Net Weight	85g	
		1

Packing Capacity

Model	Dimensions	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)×160mm(W)×47mm(H)	-	-	11-
Carton2:	250mm(L)×200mm(W)×80mm(H)	-	-	J -
Carton3:	320mm(L)×270mm(W)×80mm(H)	-	-	-
Carton4:	375mm(L)×275mm(W)×125mm(H)	-	-	-



5. Revision records

Rev	Revise Date	Content	Editor
00	2025-05-09	Preliminary version	Xu Ying

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!

Important Disclaimer

DWIN reserves the right to make any changes to product designs without prior notice.

Customers should ensure strictly adhering to all the relevant standards and requirements during the product application process, including but not limited to functional safety, information security, and regulatory provisions.

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