# DMG48270F043\_05WN

#### 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	٠. (		
2	VIN	all at 3.3V CMOS level.			
3	GND				
4	GND	GND			
5	GND	70			
6	3.3V OUT	3.3V output, maximum load of 100mA.			
7	TX2	UART2			
8	RX2	UARTZ			
9	SD_D0	103	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	Multiple and LIADTA	
14	SD_CMD		RX1	Multiplexed UART1	
15	TPY1		CIP_SDA	Capacitive touch screen interface	
16	TPX1	4-wire resistive touch screen	CTP_INT	When connected to CTP, the	
17	TPY0	interface	CTP_SCL	CIP_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
Active Area (AA) 95.04mm (W)×53.86mm (H)	
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 matching 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;				
Data Format	UART2: N81;				

# 2.3 Electrical specifications

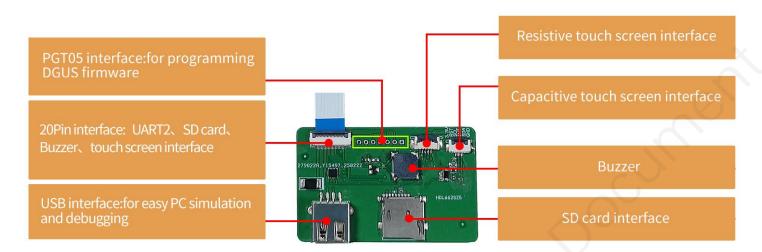
Rated Power	<2W		
Operating Voltage	3.6-5.5V, typical value of 5V.		
Operating Current	220mA@ 5V		
Recommended power supply: 5V 1A DC			

# 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.



Operation steps: open serial assistant - custom function command - set command - send.

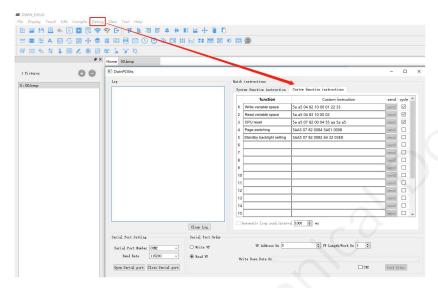
For example:

(1) Page switching

Tx: 5AA5 07 82 0084 5A01 0008

(2) Standby backlight setting

Tx: 5AA5 07 82 0082 64 32 03E8



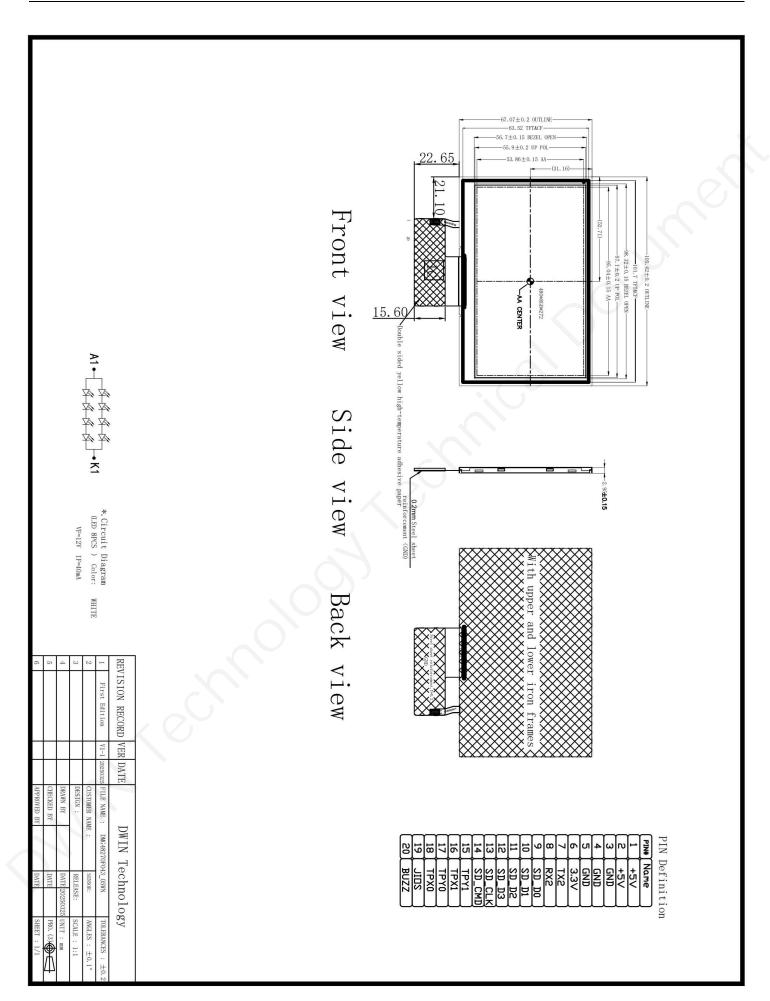
**DGUS** operation

# 4. Packing capacity & dimension

Dimension	
Dimension	105.42(W) ×67.07 (H) ×2.95(T) mm
Net Weight	45g

### **Packing Capacity**

Model	Dimensions	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)×160mm(W)×47mm(H)	1	4	4
Carton2:	250mm(L)×200mm(W)×80mm(H)	1	8	8
Carton3:	320mm(L)×270mm(W)×80mm(H)	1	16	16
Carton4:	375mm(L)×275mm(W)×125mm(H)	-	<u>-</u>	100



#### 5. Revision records

Rev	Revise Date	Content	Editor
00	2025-03-27	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!

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