

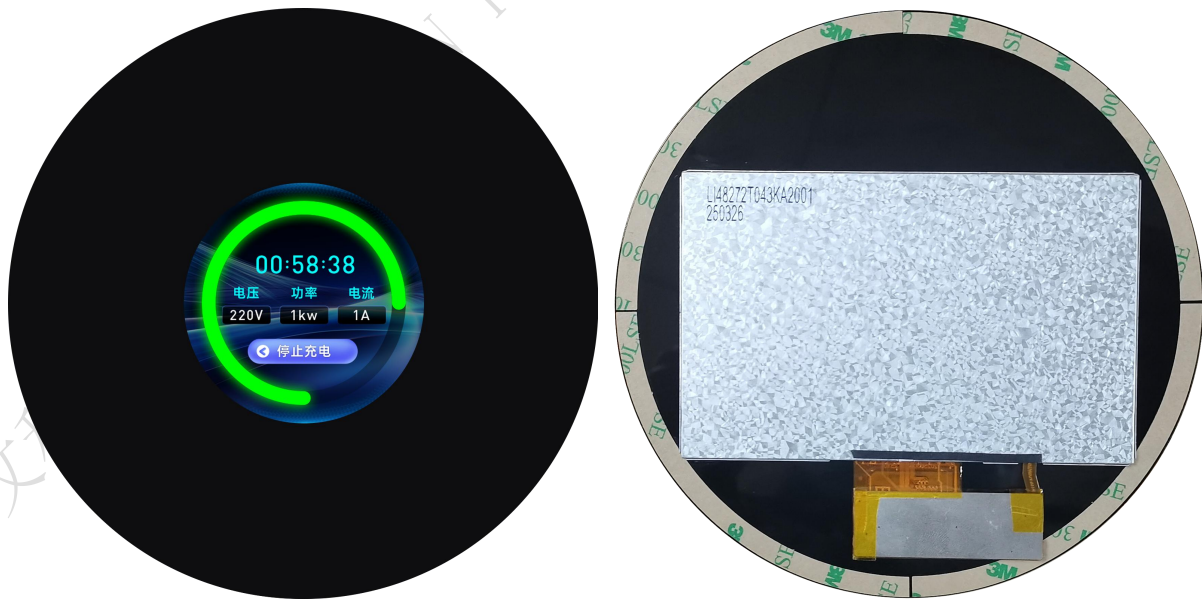
DMG48270F043_05WNZ06

产品概述:

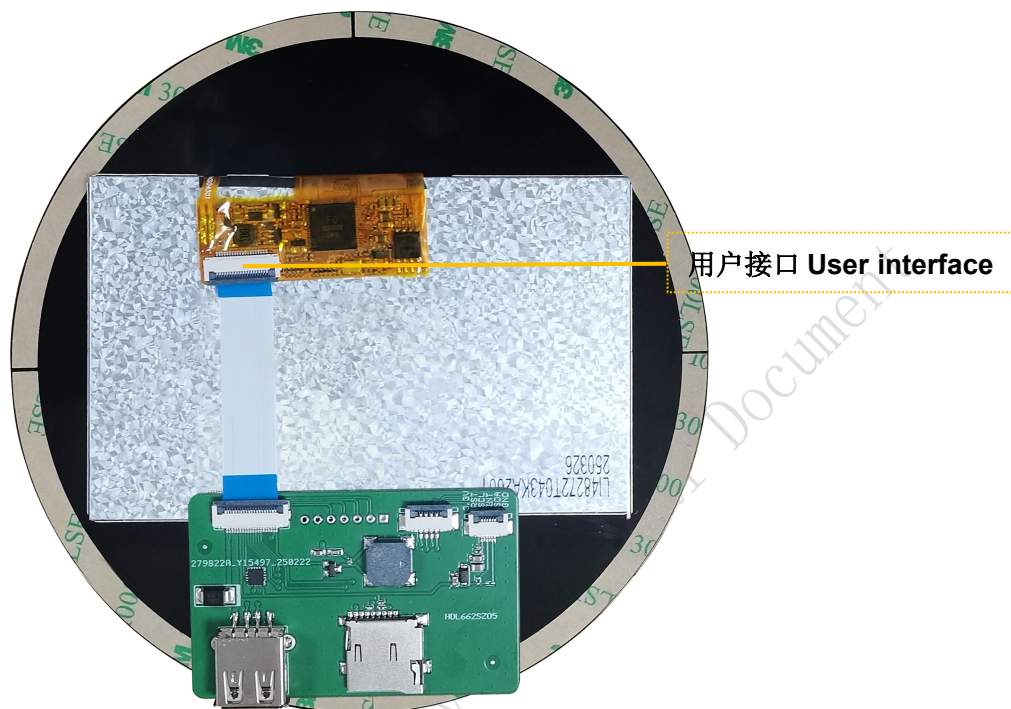
- 基于 T5F0 ASIC，运行 DGUS II 人机交互软件平台。
- 4.3 英寸，480*272 分辨率，TV-TN 液晶显示屏。
- 排线共 20 个 pin 脚，引出串口 2、SD 卡、蜂鸣器、触摸屏等接口。
- 支持外接 4 线 RTP、CTP，蜂鸣器或扬声器。

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, CTP, buzzer or speaker.



1 外部接口 External Interface



PIN# 序号	Definition1 定义 1	Function1 功能 1	Definition2 定义 2	Function2 功能 2
1	+5V	供电输入, DC3.3-5.5V。IO 均为 3.3V CMOS 电平。 Power supply, DC3.3-5.5V. IO are all at 3.3V CMOS level.		
2	+5V			
3	GND			
4	GND			
5	GND			
6	3.3V OUT	3.3V 输出, 最大负载 100mA。 3.3V output, maximum load of 100mA.		
7	TX2	UART2		
8	RX2			
9	SD_D0	JIOS 浮空时, SD 卡接口。 When JIOS is in the air, SD card interface.	TMS	JIOS 对地短路时, JTAG 接口。 When JIOS is shorting circuit to ground, JTAG interface.
10	SD_D1		TCK	
11	SD_D2		TDI	
12	SD_D3		TDO	
13	SD_CLK		TX1	复用的 UART1 Multiplexed UART1
14	SD_CMD		RX1	
15	TPY1	4 线电阻触摸屏接口 4-wire resistive touch screen interface	CIP_SDA	电容触摸屏接口 接 CTP 时, CIP_SDA、CTP_INT 需外部 4.7K 上拉到 3.3V。 Capacitive touch screen interface When connected to CTP, the CIP_SDA and CTP_INT need to be pulled up to 3.3V by an external 4.7K resistance.
16	TPX1		CTP_INT	
17	TPY0		CTP_SCL	
18	TPX0		CTP_RST	
19	JIOS	JTAG/IO 选择 JTAG/IO choose		
20	BUZZ	蜂鸣器驱动输出 Buzzer drives output	D/A	音频 PWM DA 输出 Audio PWM DA output

2 规格参数 Specification Parameters

2.1 产品参数 Product Parameters

主控芯片 Main Chip	T5F0
用户接口方式 User Interface	20Pin_0.5mm FCC
FLASH	8MB
UI 版本 UI Version	DGUS II
供电方式 Power Supply	HDL662SZ5 转接板供电 HDL662SZ5 adapter board power supply
尺寸 Dimensions	4.3 英寸 4.3 inch
分辨率 Resolution	480*272
可视区域 Viewing Area (VA)	半径=26.93mm R=26.93mm
视角 Viewing Angle	TV 视角, 典型值 70°/70°/40°/30° (L/R/U/D) TV viewing angle, 70°/70°/40°/30° (L/R/U/D)
背光寿命 Backlight Service Life	>10,000H
亮度 Brightness	200nit
亮度调节 Brightness Control	100 级亮度调节 (当亮度调节至最高亮度的 1%~30%时, 可能出现闪烁现象, 不建议在此范围使用) 0~100 grade (When the brightness is adjusted to 1%~30% of the maximum brightness, flickering may occur and is not recommended to use in this range)

2.2 串口参数 Interface Parameters

参数 Item	测试条件 Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
串口波特率 Baudrate	用户自定义（硬件配置文件设置） User Set(Configure the CFG file)	3150	115200	3225600	bps
串口输出电平 Output Voltage(TXD)	Output 1	3.0	3.3	-	V
	Output 0	-	0	0.3	V
串口输入电平 Input Voltage(RXD)	Input 1	-	-	3.3	V
	Input 0	0	-	0.5	V
串口模式 Interface	UART2: TTL;				
数据格式 Data Format	UART2: N81;				

2.3 电气规格 Electrical specifications

额定功率 Rated Power	<2W
工作电压 Operating Voltage	3.3~5.5V, 典型值 5V。 3.3~5.5V, typical value of 5V.
工作电流 Operating Current	228mA@ 5V
推荐工作电源: 5V 1A 的直流稳压电源 Recommended power supply: 5V 1A DC	

2.4 工作环境 Operating Environment

工作温度 Operating Temperature	-10℃~60℃ (5V @ 60% RH)
存储温度 Storage Temperature	-20℃~70℃
工作湿度 Operating Humidity	10%~90%RH, 典型值 60%RH。 10%~90%RH, typical value of 60% RH.

3 调试示例 Debug

建议首次使用迪文智能屏的用户购买测试套件。详细信息可联系客服人员。

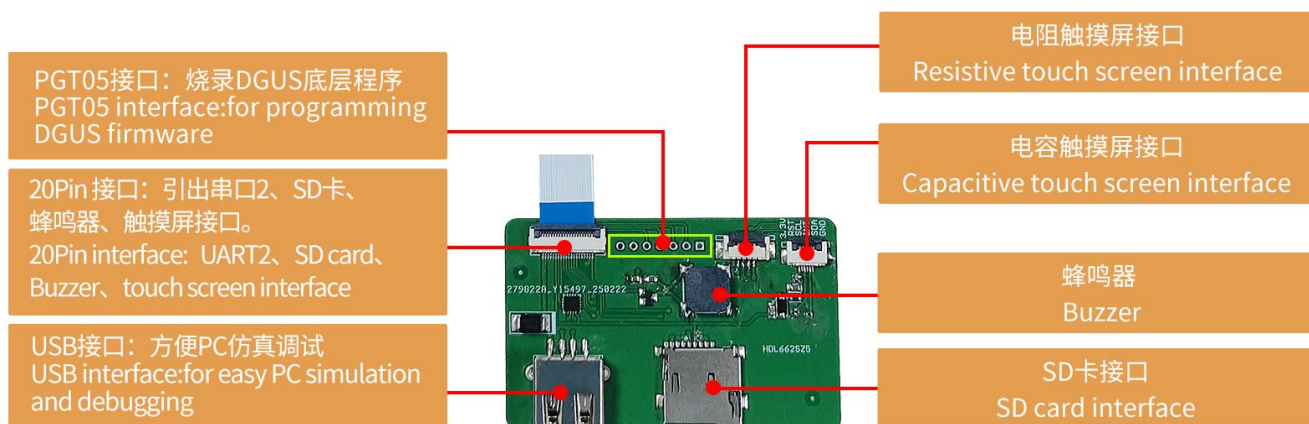
It is recommended for new users of DWIN smart LCMs to purchase official accessories. For more details, please refer to customer service center.

转接板型号: HDL662SZ5

Adapter board model: HDL662SZ5

连接线: FCC20_0.5 L=50mm (B03692)

Connecting cables: FCC20_0.5 L=50mm(B03692)



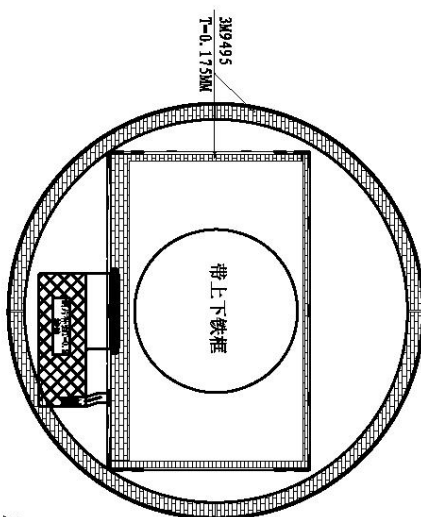
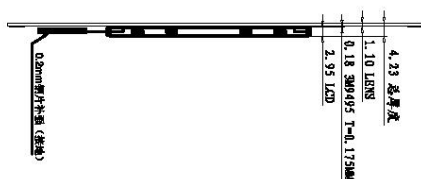
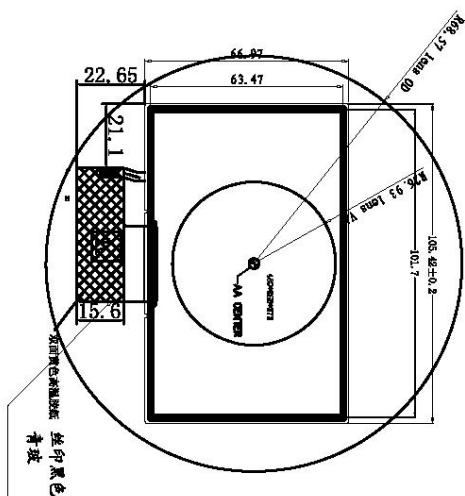
4 包装和物理尺寸 Packing Capacity & Dimension

尺寸 Dimension	
外形尺寸 Dimension	半径=68.57mm *高度 4.23mm 68.57mm radius * 4.23mm height
净重量 Net Weight	85g

正视图

侧视图

正视图



座子PIN 定义

PRM	Name
1	+5V
2	+5V
3	GND
4	GND
5	GND
6	3...3V
7	TX2
8	RX2
9	S0_D0
10	S0_D1
11	S0_D2
12	S0_D3
13	S0_CLK
14	S0_CMD
15	TPY1
16	TPY1
17	TPY0
18	TPY0
19	J105
20	BUTZ

NOTE:

- 1、*为重点尺寸；
- 2、油墨丝印厚度小于15um；
- 3、Warpage
- 4、Lens未标注倒边
- 5、Lens表面硬度:6H；
- 6、透光率：25%左右；
- 7、符合RoHS标准；
- 8、未标注公差 $\pm 0.15\text{MM}$ 。

REVISION RECORD		YEAR DATE		迪文科技有限公司			
1	初次设计	11	2008/09	FILE NAME :	100000710000_000000	FILE NUMBER :	11-01
2				COMPANY NAME :		DESIGNER :	张善忠
3				DESIGN :		DATE :	2008/09/01
4				DESIGN BY :	张善忠	UNIT :	mm
5				CHECKED BY :		DATE :	
6				APPROVED BY :		DATE :	
							
				PREP. BY : 			
				SHEET : 2/1			

5 修订记录 Record of Revision

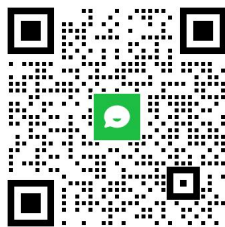
版本 Rev	日期 Revise Date	描述 Content	编辑人 Editor
00	2025-04-28	参考版本 Preliminary version	赵方维

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感谢大家一直以来对迪文的支持，您的支持是我们进步的动力！

Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!

重要声明

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