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DMT48270T043_02W

4.3 Inches, 480xRGBx272, 65K Colors, DGUS LCM



Record of Revision

Revise Date	Content
2012-02-01	First Edition
2012-12-12	Update RTC battery to CR2032
2018-06-06	Add instructions about brightness adjusting

● Display

Item	Parameter	Description
Color	65K (65536) colors	16 bit color 5R6G5B
Active Area (A.A.)	95.0mm (W) ×53.9mm (H)	480*272
View Area (V.A.)	96.0mm (W) ×54.9mm (H)	480*272
Resolution	480*272	90° rotated display (272*480)
Backlight	LED	-
Brightness	300 nit (DMT48270T043_02WN)	64 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum,which may lead a flicker)
	250 nit (DMT48270T043_02WT)	

● Voltage & Current

Item	Conditions	Min	Typ	Max	Unit
Power Voltage	-	3.2	5.0	6.0	V
Operation Current	VCC = +5V, Backlight on	-	350	-	mA
	VCC = +5V, Backlight off	-	170	-	mA

Recommended power supply: 5V 1A DC

● Reliability Test

Item	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 5V voltage	-20	25	70	°C
Storage Temperature	-	-30	25	85	°C
Working Humidity	25°C	10%	60%	90%	RH
Protective Paint	-	-	None	-	-
Aging Test	-	-	24	-	H

● Interface

Item	Conditions	Min	Typ	Max	Unit
Baudrate	Standard	1200	115200	921600	bps
	User set	1200	-	1000000	bps
Output Voltage (TXD, BUSY)	Output 1, Iout = 1mA	3.0	3.2	-	V
	Output 0, Iout = -1mA	-	0.1	0.2	V
Input Voltage (RXD, I/O0)	Input 1, Iin = 1mA	2.0	3.3	15.0	V
	Input 0, Iin = -1mA	-15.0	0.0	0.3	V
Interface	Mode is determined by Jumper: ON = 8N1, 3.3V TTL/CMOS; OFF = 8N1, RS232				
Socket	10Pin_1.0mm FCC, 8Pin_2.54mm				
USB	None				
SD Slot	Yes (FAT32 file format, Micro SD/TF)				

● Memory

Item	Parameter	Min	Typ	Max	Unit
Flash	Space of Font	-	32	-	MB
	Picture Storage (256MB)	-	-	836	Pcs
	Picture Storage (2GB)	-	-	7584	Pcs
RAM	Variable Storage Space	-	56	-	KB

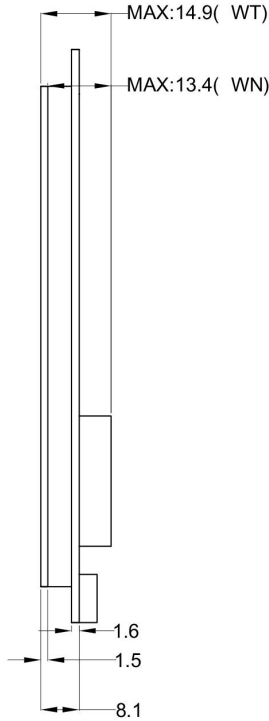
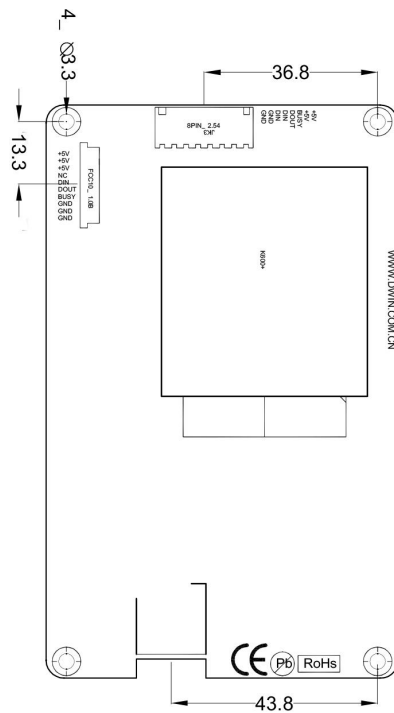
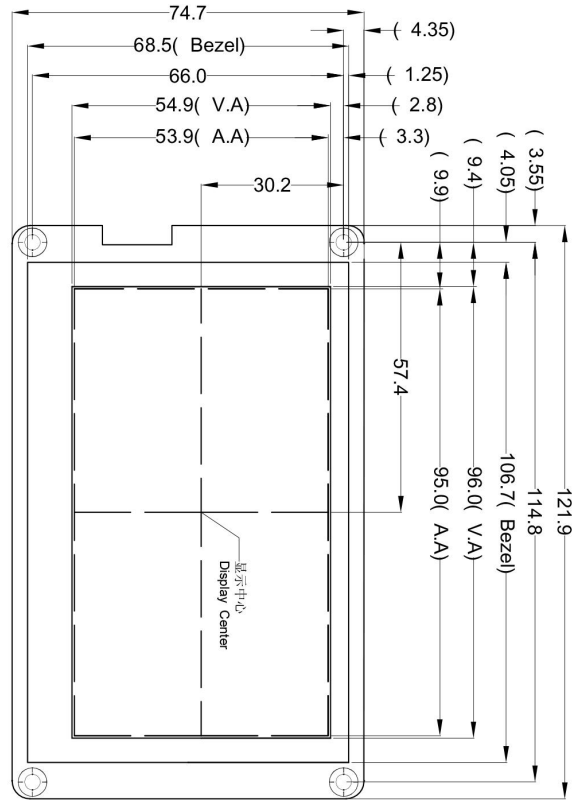
● Peripherals

Peripherals Acquired	
Peripherals	DMT48270T043_02WN : RTC, Buzzer DMT48270T043_02WT : 4-wire resistance touchscreen, RTC, Buzzer

● Packing Capacity & Dimension

Dimension				
Dimension	121.9(W) ×74.7(H) ×12.7(N) /14.1(T)mm			
Net Weight	105g (DMT48270T043_02WN)			
	125g (DMT48270T043_02WT)			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1	220mm(L)×160mm(W)×47mm(H)	1	2	2
Carton2	250mm(L)×200mm(W)×80mm(H)	2	2	4
Carton3	320mm(L)×270mm(W)×80mm(H)	2	4	8
Carton4	450mm(L)×350mm(W)×300mm(H)	2	25	50
Carton5	600mm(L)×450mm(W)×300mm(H)	2	60	120

Remark:Thereis no extra-notice if the product design changes that do not affect performance parameters and use



注:

1. 尺寸定位基准为定位孔
Location hole is used as position reference
2. 未标注公差为 $\pm 0.3\text{mm}$
Unmarked Tolerance is $\pm 0.3\text{mm}$
3. 虚线为显示区域 / Active area is marked in dashes.

引脚名称	引脚编号	引脚类型	说明
VCC	1,2	P	电源输入 / Power Input
BUSY	3	OUT	串口缓冲信号指示 Busy / (Buffer-Full) Signal
DOUT	4	OUT	迪文屏串口输出 / DOUT
DIN	5,6	IN	迪文屏串口输入 / DIN
GND	7,8	P	公共地 / GND

引脚名称	引脚编号	引脚类型	说明
VCC	1,2,3	P	电源输入 / Power Input 未定义 / Not Defined
NC	4	-	未定义 / Not Defined
RXD	5	IN	迪文屏串口输入 .3.3V TTL(CMOS) DIN (.3.3V TTL(CMOS))
TXD	6	OUT	迪文屏串口输出 .3.3V TTL(CMOS) DOUT (.3.3V TTL(CMOS))
BUSY	7	-	未定义 / Not Defined
GND	8,9,10	P	公共地 / GND

型号	DMT48270T043_02W		
图纸	A4	绘图	DWIN
比例	1:1	审核	日期
单位	mm	批准	日期
 北京迪文科技有限公司 Beijing DWIN Technology Co., Ltd.			