

# DMT48270M043\_02W

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



## Record of Revision

Revise Date	Content
2012-11-13	First Edition
2013-05-14	Update M3 ARM to M4 ARM

## 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) × 55.8mm (H)	480 × 272
Resolution	480 × 272	90° rotation display (272 × 480)
Backlight	LED	-
Brightness	300 nit (DMT48270M043_02WN)	64 levels adjustment
	250 nit (DMT48270M043_02WT)	64 levels adjustment

## Voltage & Current

Item	Conditions	Min	Typ	Max	Unit
Power Voltage	-	3.3	5.0	6.0	V
Operation Current	VCC = +5V, Backlight on	-	210	-	mA
	VCC = +5V, Backlight off	-	100	-	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	70	°C
Working Humidity	25°C	10%	60%	90%	RH
Protective Paint	-	-	None	-	-
Aging Test	-	-	None	-	H

## Interface

Item	Conditions	Min	Typ	Max	Unit
Baudrate	Standard	1200	115200	921600	bps
Output Voltage (TXD)	Output 1, Iout = 1mA	3.0	3.2	-	V
	Output 0, Iout = -1mA	-	0.1	0.2	V
Input Voltage (RXD)	Input 1, Iin = 1mA	2.0	3.3	5.0	V
	Input 0, Iin = -1mA	-0.7	0.0	1.3	V
Interface	8N1, 3.3V TTL/CMOS				
Socket	10Pin_1.0mm FCC				
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 (128MB)	-	-	374	Pcs
RAM	Variable Storage Space	-	4	-	KB
	Refresh Rate	High-speed Mode	100		Ms
		Normal Mode	200		Ms

## Peripheral

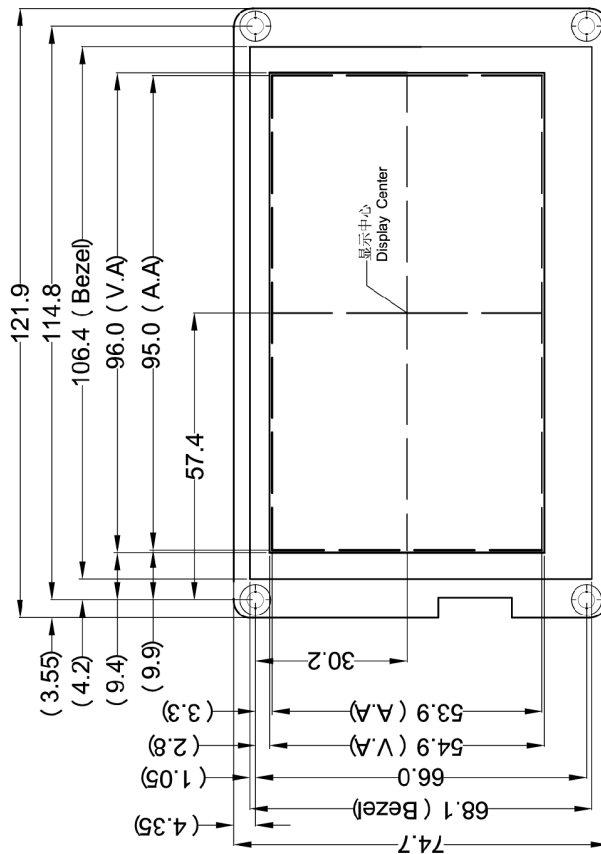
Peripherals Acquired	
Peripherals	DMT48270M043_02WN : RTC, Buzzer DMT48270M043_02WT : 4-wire resistance touchscreen, RTC, Buzzer

## Main Features of Mini DGUS Module

Main Features of Mini DGUS Module
1. Hardware & interface: ARM kernel; 128MB flash; 2KB DGUS flash; inapplicable for conditions with strong interference. Unsupported functions: CRC checksum, data exporting and firmware upgrading via SD card, user defined baud rate.
2. Software: Unsupported functions: firmware parameter settings, DWIN_OS, software timer interface.
Only 2 curves are supported in dynamic curve function.

## Packing Capacity & Dimension

Packing Capacity & Dimension				
Dimension				
Dimension	121.9 (W) × 74.7 (H) × 15.6 (T-WN) / 17.0(T-WT)mm			
Net Weight	85g (DMT48270M043_02WN)			
	105g(DMT48270M043_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



注:

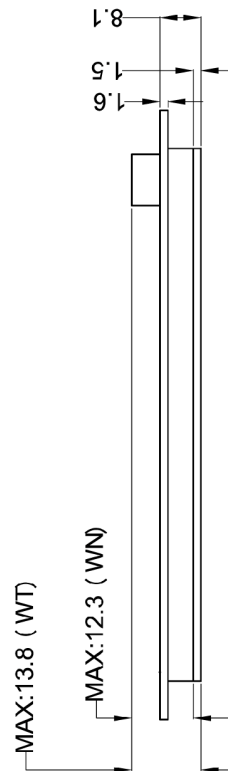
1. 尺寸定位基准为定位孔

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	1,2,3	P	电源输入 / Power Input
I/O	4	IN	高速数据选择 (921600bps)
RXD	5	IN	串行数据输入, 3.3V TTL CMOS
TXD	6	OUT	串行数据输出, 3.3V TTL CMOS
BUSY	7	OUT	串行数据缓冲器满信号
GND	8,9,10	P	公共地 / GND

型号 DMT48270M043\_02W

图纸 A4 绘图 DWIN 日期

比例 1:1 审核 日期

单位 mm 批准 日期

DWIN 北京迪文科技有限公司  
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