

# DMT48270M050\_02W

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



## Record of Revision

Revise Date	Content
2012-11-27	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.)	110.9mm (W) × 62.9mm (H)	480 × 272
View Area (V.A.)	111.0mm (W) × 65.9mm (H)	480 × 272
Resolution	480 × 272	90° rotation display (272 × 480)
Backlight	LED	-
Brightness	300 nit (DMT48270M050_02WN)	64 levels adjustment
	250 nit (DMT48270M050_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	-	200	-	mA
	VCC = +5V, Backlight off	-	100	-	mA
Recommended power supply: 5V 0.5A 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)				

## ● 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

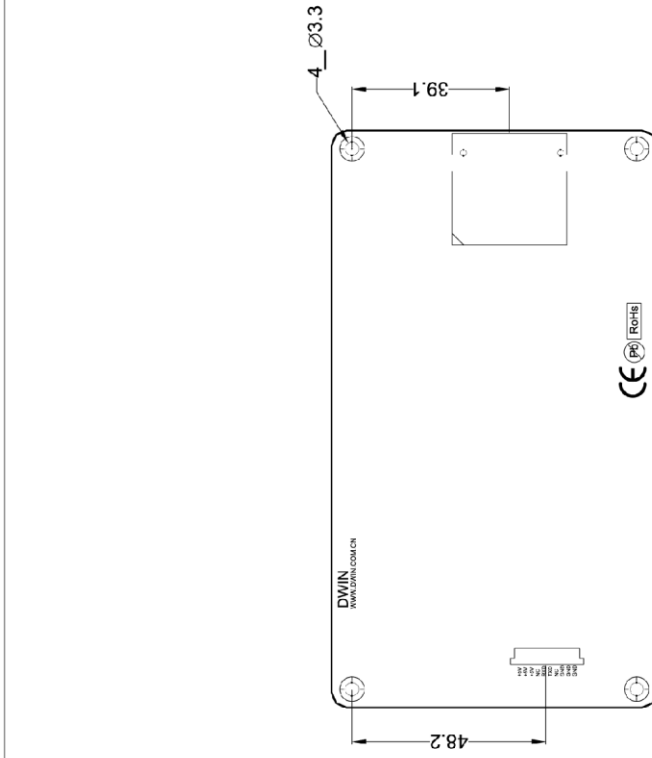
Peripherals Acquired	
Peripherals	DMT48270M050_02WN : RTC, Buzzer DMT48270M050_02WT : 4-wire resistance touchscreen, RTC, Buzzer

## ● Main Features of Mini DGUS Module

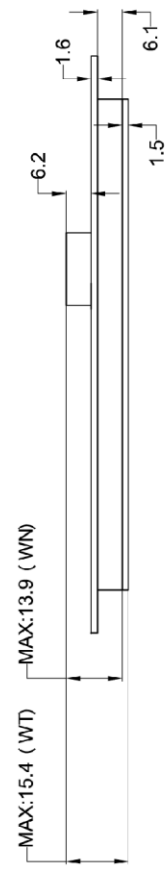
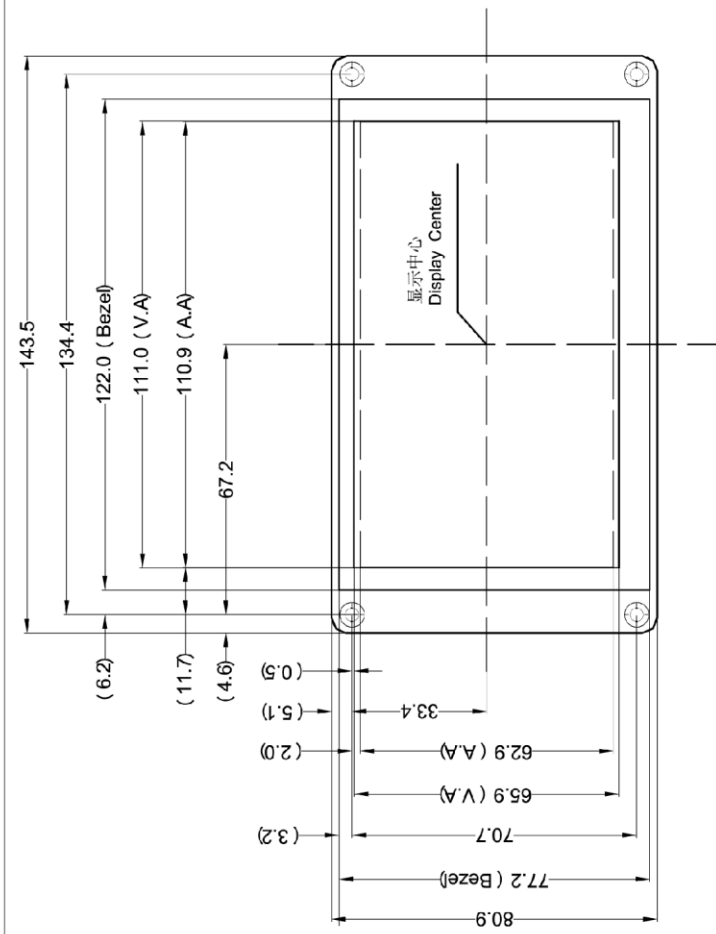
Main Features of Mini DGUS Module
1. Hardware & interface: ARM kernel; 128MB flash; 2KB DGUS flash; inapplicable for conditions with strong interference. Unsupported functions: CRC checksum, data exporting and firmware upgrading via SD card, user defined baud rate.
2. Software: Unsupported functions: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

## ● Packing Capacity & Dimension

Dimension				
Dimension	143.5 (W) × 80.9 (H) × 13.9 (T-WN) / 15.4(T-WT)mm			
Net Weight	85g (DMT48270M050_02WN) 105g(DMT48270M050_02WT)			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1	220mm(L)×160mm(W)×47mm(H)	1	1	1
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)	-	-	-
Carton5	600mm(L)×450mm(W)×300mm(H)	2	50	100



1. 尺寸定位基准为定位孔。  
Location hole is used as Drawing Reference.
2. 未标注公差为 ±0.3mm。  
General Tolerance is ±0.3mm.
3. 虚线标注为有效显示区域。  
Active Area (A.A.) is marked in dash lines.



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
NC	4	-	非接 / Not Defined
RWD	5	IN	读取数据输入, 3.3V TTL/CMOS Data Read Input, 3.3V TTL/CMOS
TXD	6	OUT	读取数据输出, 3.3V TTL/CMOS Data Read Output, 3.3V TTL/CMOS
BUSY	7	-	非接 / Not Defined
GND	8,9,10	P	公共地 / GND

型号	DMT48270M050_02WT			
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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