

DMT48270M043_07W

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



Record of Revision

Revise Date	Content
2015-10-18	First Edition
2016-3-14	Update Image
2016-09-08	Update Refresh Rate
2016-09-18	Update Variable Storage Space

● Display

Item	Parameter	Description
Color	65K (65536) colors	16 bit color 5R6G5B
Active Area (A.A.)	95.0mm (W) × 53.9mm (H)	480 × 272
Resolution	480 × 272	90° rotation display (272 x 480)
Backlight	LED	-
Brightness	300 nit (DMT48270M043_07WN)	64 levels adjustment
	250 nit (DMT48270M043_07WT)	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	-	240	-	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	-	-

● 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	-	8	-	KB
	Refresh Rate	-	125	-	Ms

● Peripheral

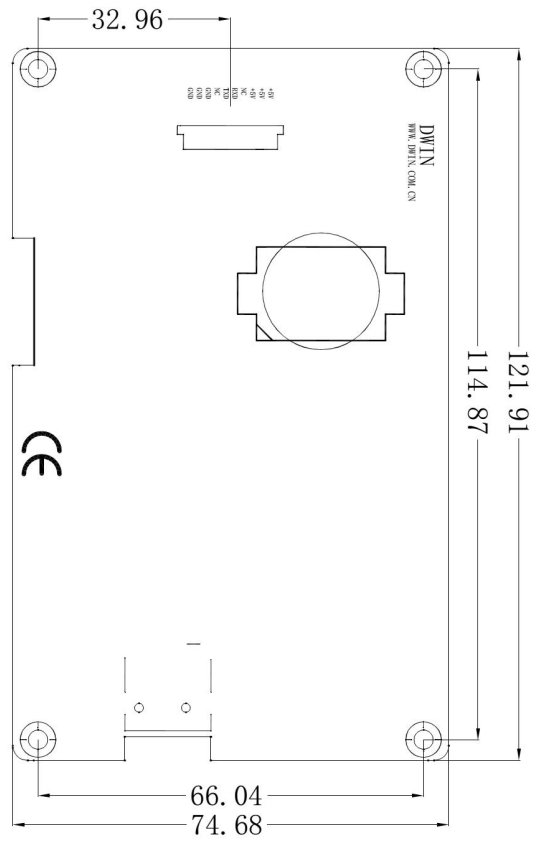
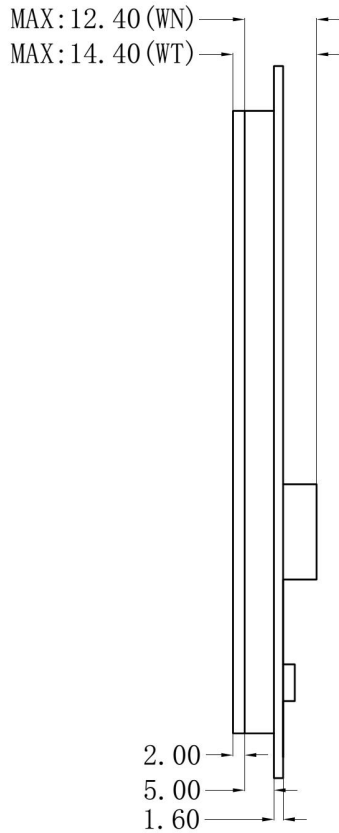
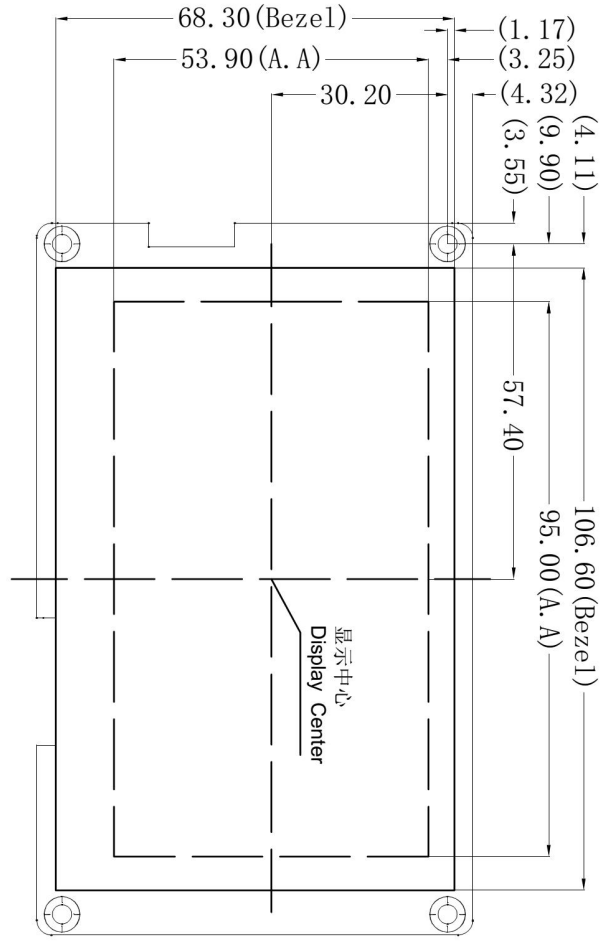
Peripherals Acquired	
Peripherals	DMT48270M043_07WN : RTC, Buzzer DMT48270M043_07WT : Capacitive touch screen, RTC, Buzzer

● Main Features of Mini DGUS Module

Main Features of Mini DGUS Module
1. Hardware&interface:ARM kernel; 128MB flash, 8KB DGUS variables, inapplicable for conditions with strong interference. Supported functions: CRC checksum,the preservation and literacy of font space and firmware upgrading via SD card, modbus protocol and mini OS, online adjusting. Unsupported functions: user defined baudrate, database operations.
2.unsupported functions over software: 0xFE07(screen printing etc.), 5A21_08(margin filling), 5A22(sheet displaying), 5A23(special industry needing). Supported functions: support 4 curves over 5A20 in real time.

● Packing Capacity & Dimension

Dimension				
Dimension	121.9 (W) × 74.7 (H) × 12.4 (WN) / 14.4(WT)mm			
Net Weight	90g (DMT48270M043_07WN)			
	122g (DMT48270M043_07WT)			
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



引脚名称	引脚定义	引脚类型	说明
Vcc	1, 2, 3	P	电源输入/Power Input
NC	4	-	未定义/Not Defined
RXD	5	IN	通过串口输入, 3.3V TTL/COMS DIN(3.3V TTL/COMS)
TXD	6	OUT	通过串口输出, 3.3V TTL/COMS DOT(3.3V TTL/COMS)
NC	7	-	未定义/Not Defined
GND	8, 9, 10	P	公共地/GND

型号	DMT48270M043_07W				北京迪文科技	
图纸	A4	绘图	DWIN	日期		Beijing DWIN Technology Co., Ltd.
比例		审核		日期		
单位	mm	批准		日期		

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 $\pm 0.3\text{mm}$.
注: 虚线标注为有效显示区域
Active area is marked in Dash lines.