

# DMT48270C043\_06WN

# DMT48270C043\_06WT

4.3 Inches, 480xRGBx272, 65K Colors, DGUS LCM (DGUS II)



## Record of Revision

Revise Date	Content
2017-06-24	First Edition
2018-01-06	Renewal service life
2018-05-29	Add instructions about brightness adjusting
2018-08-20	Modify height dimension
2019-09-11	Update picture
2019-09-24	Add VA Dimension

## ● Display

Item	Parameter	Description
Color	65K (65536) colors	16 bit color 5R6G5B
Active Area (A.A)	95.04 mm(W)×53.86 mm(H)	480×272
View Area (V.A.)	95.2 mm(W)×54.0mm(H)	480×272
Resolution	480×272	Support 0°/90°/180°/270° rotated display
Backlight	LED	≥ 10000H ( Continuous working with maximum brightness, time of brightness halves )
Brightness	350 nit (DMT48270C043_06WN)	100 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum,which may lead a flicker)
	300 nit (DMT48270C043_06WT)	

## ● Voltage & Current

Item	Conditions	Min	Typ	Max	Unit
Power Voltage	-	4.5	5.0	5.5	V
Operation Current (None Speaker)	VCC = +5V, Backlight on	-	180	-	mA
	VCC = +5V, Backlight off	-	80	-	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	-	-	None	-	H

## ● Interface

Item	Conditions	Min	Typ	Max	Unit
UART2 Baudrate	User set	7841	115200	7833600	bps
Output Voltage (TXD)	Output 1, Iout = 1mA	3.0	3.3	-	V
	Output 0, Iout = -1mA	-	0	0.3	V
Input Voltage (RXD)	Input 1, Iin = 1mA	2.4	3.3	5.0	V
	Input 0, Iin = -1mA	0	-	0.5	V
Interface	UART2: N81, 3.3V TTL/CMOS UART4: Optional N81/E81/O81/N82 mode, 3.3V TTL/CMOS				
Socket	10Pin_1.0mm FCC				
SD Slot	Yes (FAT32 file format, Micro SD/TF)				
Speaker	2Pin_2.0mm				

## ● Memory

Item	Parameter	Min	Typ	Max	Unit
Flash	Space of Font	-	-	64	Mbytes
	Font and audio file share the back half (32 Mbytes) of Font Space.				
	Picture Storage	-	-	245	Pcs
RAM	Variable Storage Space	-	128	-	Kbytes
Nor Flash	User database	-	320	-	Kbytes

## ● UI&Peripherals

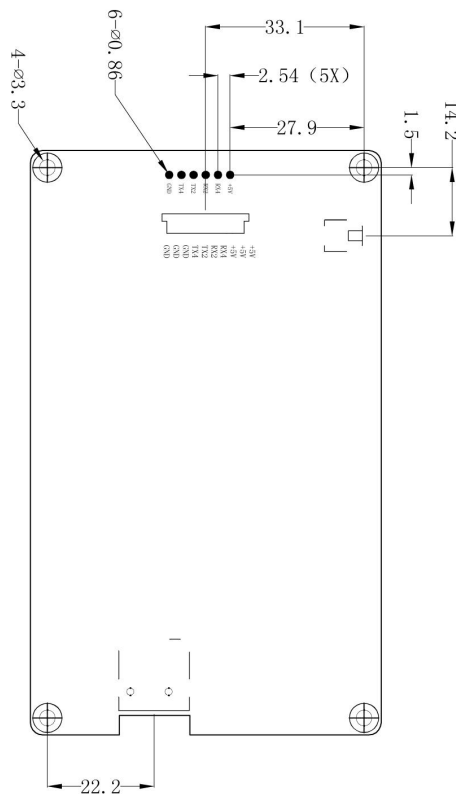
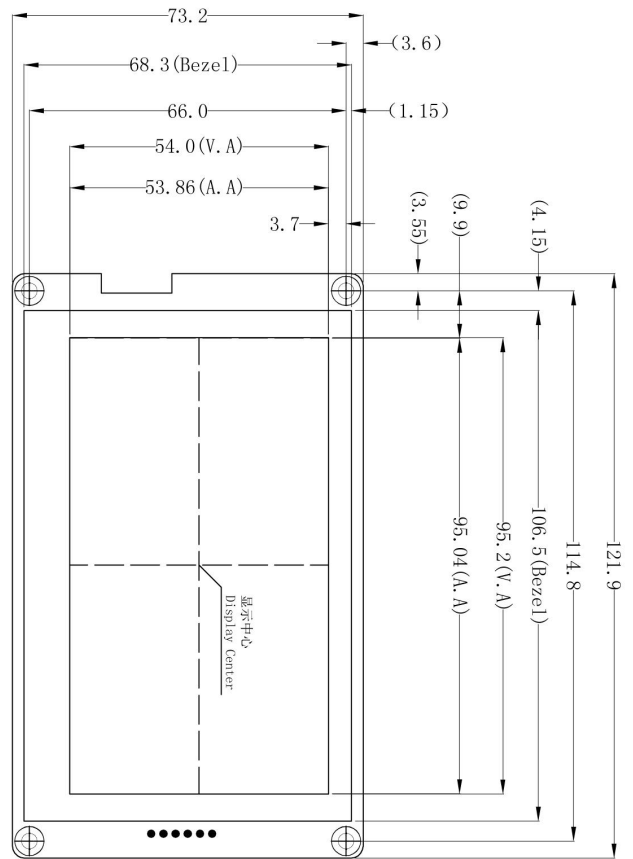
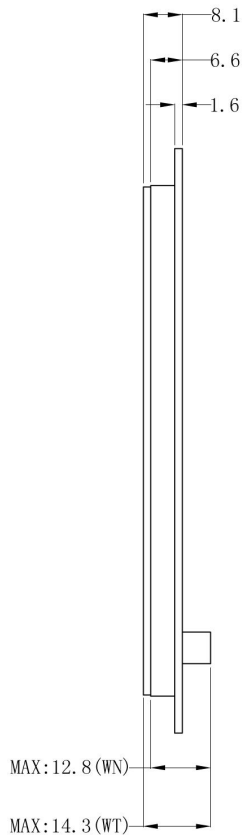
UI&Peripherals	
UI Version	T5UID1
Peripherals	DMT48270C043_06WN : Speaker DMT48270C043_06WT : Resistance touchscreen, Speaker

## ● Packing Capacity & Dimension

Dimension				
Dimension	121.9(W) ×73.2(H) ×12.8(WN) /14.3(WT)mm			
Net Weight	90g (DMT48270C043_06WN) 110g (DMT48270C043_06WT)			
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:There is no extra-notice if the product design changes that do not affect performance parameters and use.

引脚名称	引脚定义	引脚类型	说明
GND	8, 9, 10	P	公共接地/GND
TX4	7	0	迪文串口4输出DOUT
TX2	6	0	迪文串口2输出DOUT
RX2	5	1	迪文串口2输入DIN
RX4	4	1	迪文串口4输入DIN
+5V	1, 2, 3	P	电源输入 /Power Input



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

型号	DMT48270C043_06WN				北京迪文科技 Beijing DWIN Technology Co., Ltd			
图 纸	A 4	图 纸	DWIN	日期				
比 例		审 核		日期				
单 位	MM	批 准		日期				