

DMT32240T035_02W

3.5 Inches, 320xRGBx240, 65K Colors, DGUS LCM



Record of Revision

Revise Date	Content
2012-02-01	First Edition

● Display

Item	Parameter	Description
Color	65K (65536) colors	16 bit color 5R6G5B
Active Area (A.A.)	70.1mm (W) x52.6mm (H)	320*240
View Area (V.A.)	73.2mm (W) x55.5mm (H)	320*240
Resolution	320 x 240	90° rotated display (240 x 320)
Backlight	LED	-
Brightness	250 nit (DMT32240T035_02WN)	64 levels adjustment
	200 nit (DMT32240T035_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	-	240	-	mA
	VCC = +5V, Backlight off	-	140	-	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	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/O)	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

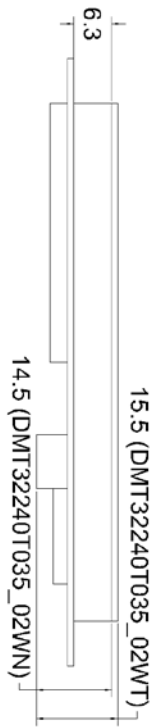
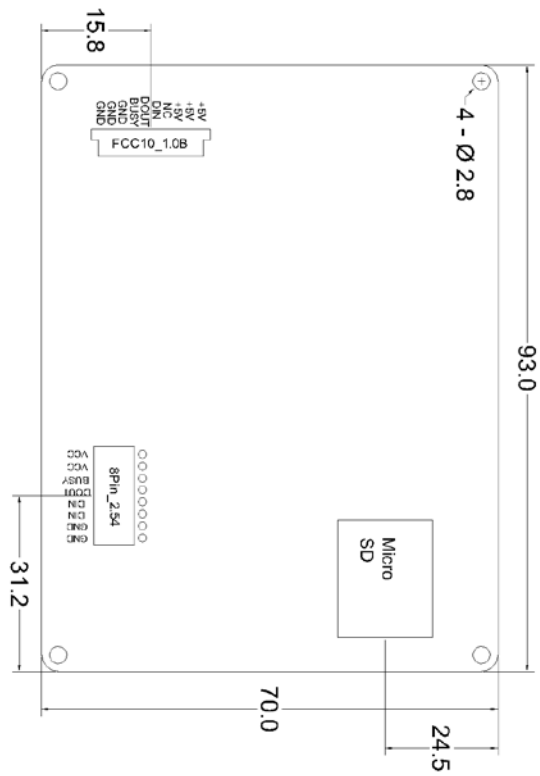
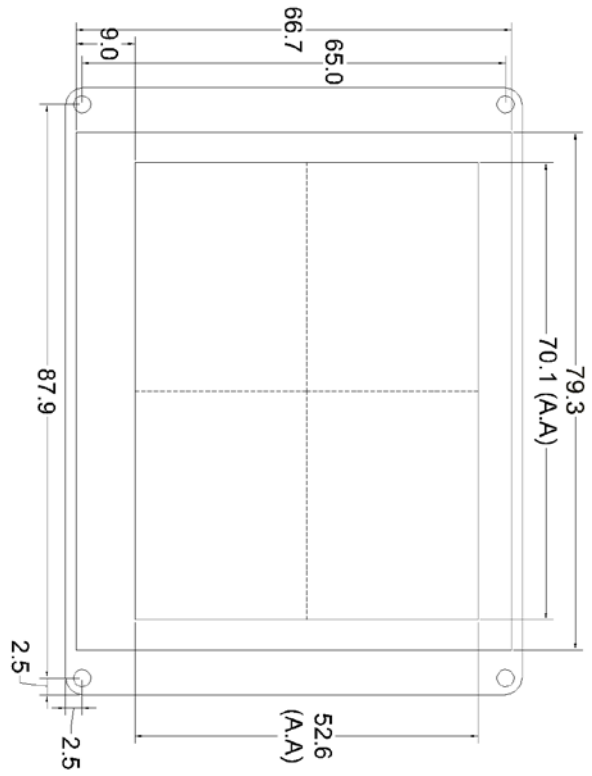
Item	Parameter	Min	Typ	Max	Unit
Flash	Space of Font	-	32	-	MB
	Picture Storage (256MB)	-	-	708	Pcs
	Picture Storage (2GB)	-	-	7456	Pcs
RAM	Variable Storage Space	-	56	-	KB

● Peripherals

Peripherals Acquired	
Peripherals	DMT32240T035_02WN : RTC, Buzzer DMT32240T035_02WT : 4-wire resistance touchscreen, RTC, Buzzer

● Packing Capacity & Dimension

Dimension				
Dimension	93.0 (W) x 70.0 (H) x 14.5 (T-WN) / 15.5 (T-WT)mm			
Net Weight	90g (DMT32240T035_02WN)			
	100g (DMT32240T035_02WT)			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1	220mm(L)x160mm(W)x47mm(H)	1	2	2
Carton2	250mm(L)x200mm(W)x80mm(H)	2	2	4
Carton3	320mm(L)x270mm(W)x80mm(H)	2	4	8
Carton4	450mm(L)x350mm(W)x300mm(H)	2	35	70
Carton5	600mm(L)x450mm(W)x300mm(H)	2	75	150



1. 尺寸定位基准为显示中心
 Display center is used as position reference

2. 未标注公差为 $\pm 0.3\text{mm}$
 Unmarked Tolerance is $\pm 0.3\text{mm}$

Note: 虚线为显示区域 / Active area is mark 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	-	未定义 / Not Defined
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
NC	4	-	未定义 / Not Defined
RD0	5	IN	迪文屏串口输入, 3.3V TTL CMOS DIN (3.3V TTL CMOS)
TD0	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	DMT32240T035_02W		
图例	A4	绘图	DWIN
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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