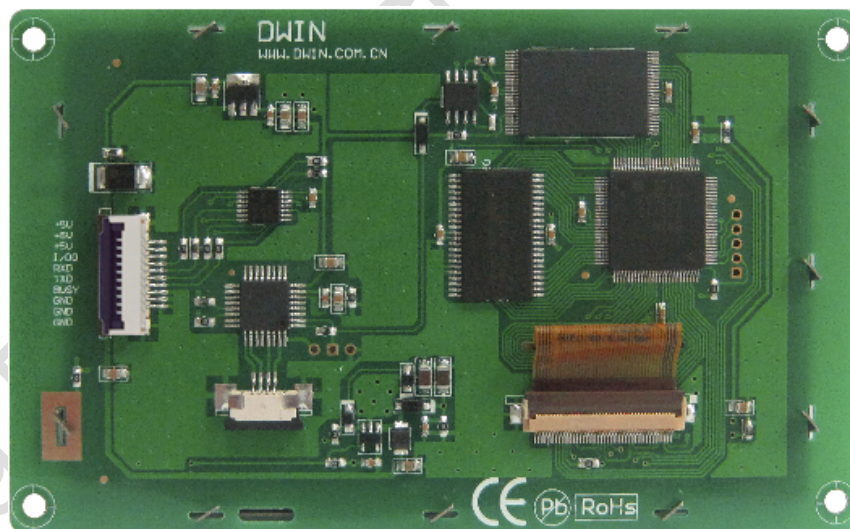


DMT48270C043_02WT

4.3 Inches, 480xRGBx272, 65K Colors, UART LCM



Record of Revision

| Revise Date | Content |
|-------------|---------------|
| 2011-11-01 | First Edition |

● 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 by using command 0xE0 (272 x 480) |
| Backlight | LED | - |
| Brightness | 300 nit (DMT48270C043_01WN) | 64 levels adjustment by using command 0x5F |
| | 250 nit (DMT48270C043_01WT) | 64 levels adjustment by using command 0x5F |

● Voltage & Current

| Item | Conditions | Min | Typ | Max | Unit |
|-------------------|--------------------------|-----|-----|-----|------|
| Power Voltage | - | 3.3 | 5.0 | 6.0 | V |
| Operation Current | VCC = +5V, Backlight on | - | 300 | - | mA |
| | VCC = +5V, Backlight off | - | 130 | - | 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 |
|----------------------------|-----------------------|------|--------|--------|-------|
| Baudrate | I/O0=1 (High Voltage) | 1200 | 115200 | 691200 | bps |
| | I/O0=0 (Low Voltage) | - | 921600 | - | bps |
| | High-speed Download | - | 6.25 | 12.000 | Mbps |
| 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/O0) | Input 1, Iin = 1mA | 2.0 | 3.3 | 5.0 | V |
| | Input 0, Iin = -1mA | -0.7 | 0.0 | 1.3 | V |
| Buffer | - | - | 24 | - | Frame |
| Interface | 8N1, 3.3V TTL/CMOS | | | | |
| Socket | 10Pin_1.0mm FCC | | | | |
| USB | None | | | | |
| SD Slot | None | | | | |

● Memory

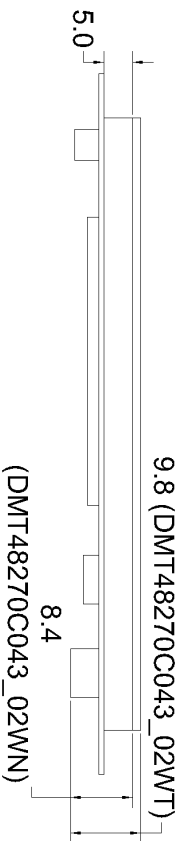
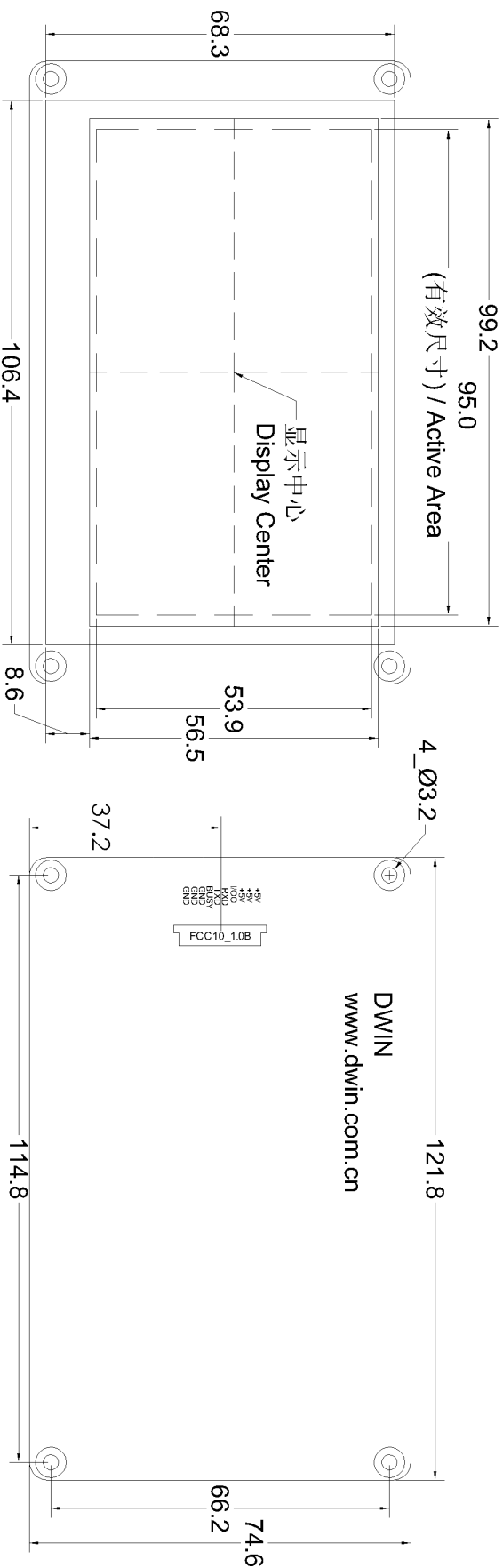
| Item | Parameter | Min | Typ | Max | Unit |
|-------|----------------------------|-----|-----|------|------|
| Flash | Space of Font | - | 32 | - | MB |
| | Picture Storage (128MB) | - | - | 374 | Pcs |
| | Picture Storage (1GB) | - | - | 3888 | Pcs |
| | User Memory | 0 | - | 32 | MB |
| RAM | Serial Access Memory Space | - | 80 | - | KB |

● Command Set & Peripheral

| Command Set & Peripheral | |
|--------------------------|---|
| Command Set | HMI Command Set M600 (M100) |
| Peripheral | DMT48270C043_02WN : None DMT48270C043_02WT : 4-wire resistance touchscreen |

● Packing Capacity & Dimension

| Dimension | | | | |
|------------------|--|-------|----------------|---------------|
| Dimension | 121.8 (W) × 74.6 (H) × 8.4 (T-WN) / 9.8(T-WT)mm | | | |
| Net Weight | 75g(DMT48270C043_02WN) 95g(DMT48270C043_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 |



9.8 (DMT48270C043_02WT)

(DMT48270C043_02WN)

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 | 1,2,3 | P | 电源输入 / Power Input |
| I/O0 | 4 | IN | 高速波特率选择(921600bps) 921600bps on/off |
| RXD | 5 | IN | 迪文屏串口输入, 3.3V TTL/CMOS DIN(3.3V TTL/CMOS) |
| TXD | 6 | OUT | 迪文屏串口输出, 3.3V TTL/CMOS DOUT(3.3V TTL/CMOS) |
| BUSY | 7 | OUT | 串口缓冲区满信号指示 Busy (Buffer-Full) Signal |
| GND | 8,9,10 | P | 公共地 / GND |

| | | | | |
|----|------------------|----|------|----|
| 型号 | DMT48270C043_02W | | | |
| | 图纸 | 绘图 | DWIN | 日期 |
| 比例 | 1:1 | 审核 | | 日期 |
| 单位 | mm | 批准 | | 日期 |

