

## DMG10600C101\_03WN

Based on T5L ASIC 10.1 Inches, 1024xRGBx600, 16.7M Colors, IPS screen

Standard instruction set (TA) / DGUS II system, Cost-Effective screen



### Record of Revision

| Revise Date | Content          |
|-------------|------------------|
| 2019-03-22  | First Edition    |
| 2019-08-22  | Modify Interface |



## ● Display

| Item                                                                                                                                                  | Parameter                   | Description                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Color</b>                                                                                                                                          | 16.7M (16777216) colors     | 24 bit color 8R8G8B                                                                                                                                                  |
| <b>(A.A)</b>                                                                                                                                          | 222.7 mm (W) × 125.3 mm (H) | 1024x600                                                                                                                                                             |
| <b>(V.A)</b>                                                                                                                                          | 225.7 mm (W) × 127.6 mm (H) | 1024x600                                                                                                                                                             |
| <b>Resolution</b>                                                                                                                                     | 1024x600                    | Support 0° /90° /180° /270° rotated display                                                                                                                          |
| <b>Backlight</b>                                                                                                                                      | LED                         | ≥ 10000H (Continuous working with maximum brightness, time of brightness halves)                                                                                     |
| <b>Brightness</b>                                                                                                                                     | 250nit                      | TA system: 64 levels adjustment;<br>DGUS II system:100 levels adjustment<br>(It's not recommend to set brightness to 1%~30% of the maximum which may lead a flicker) |
| Note: Displaying of high-contrast still images for more than 30 minutes may result in residual images. Please add screen saver to avoid this problem. |                             |                                                                                                                                                                      |

## ● Voltage & Current

| Item                                | Conditions                | Min | Typ  | Max  | Unit |
|-------------------------------------|---------------------------|-----|------|------|------|
| <b>Power Voltage</b>                | -                         | 6.0 | 12.0 | 15.0 | V    |
| <b>Operation Current</b>            | VCC = +12V, Backlight on  | -   | 250  | -    | mA   |
|                                     | VCC = +12V, Backlight off | -   | 70   | -    | mA   |
| Recommended power supply: 12V 1A DC |                           |     |      |      |      |

## ● Reliability Test

| Item                       | Conditions            | Min | Typ  | Max | Unit |
|----------------------------|-----------------------|-----|------|-----|------|
| <b>Working Temperature</b> | 60% RH at 12V voltage | -20 | 25   | 70  | °C   |
| <b>Storage Temperature</b> | -                     | -30 | 25   | 85  | °C   |
| <b>Working Humidity</b>    | 25°C                  | 10% | 60%  | 90% | RH   |
| <b>Protective Paint</b>    | -                     | -   | None | -   | -    |

## ● Interface

| Item                        | Conditions                                                                   | Min  | Typ    | Max     | Unit |
|-----------------------------|------------------------------------------------------------------------------|------|--------|---------|------|
| <b>Baudrate</b>             | User Set                                                                     | 3150 | 115200 | 3225600 | bps  |
| <b>Output Voltage (TXD)</b> | Output 1, Iout = -4mA                                                        | 2.7  | 3.2    | -       | V    |
|                             | Output 0, Iout = 4mA                                                         | -    | 0.1    | 0.4     | V    |
| <b>Input Voltage (RXD)</b>  | Input 1                                                                      | 2.4  | 3.3    | 5.5     | V    |
|                             | Input 0                                                                      | 0    | -      | 1.0     | V    |
| <b>Interface</b>            | Mode is determined by Jumper: ON = 8N1, 3.3V & 5V TTL/CMOS; OFF = 8N1, RS232 |      |        |         |      |
| <b>Socket</b>               | 8Pin_2.0mm Lock Socket                                                       |      |        |         |      |
| <b>USB</b>                  | None                                                                         |      |        |         |      |
| <b>SD Slot</b>              | YES (SDHC/FAT32 Format)                                                      |      |        |         |      |



## ● Memory

| Item                   | Typical value | Features                       | Typ value | Unit   | Description                                                                                                       |
|------------------------|---------------|--------------------------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------|
| FLASH<br>(TA/DGUS II)  | 16Mbytes      | Space of Font                  | 4-12      | Mbytes | A single font of 256Kbytes, store font, icon libraries, and other binary files                                    |
|                        |               | Picture Storage<br>(.ICL file) | 12-4      | Mbytes | JPEG format (Picture quantity relate to JPEG size, size of a single JPEG image file should not exceed 768 Kbytes) |
| RAM<br>(DGUS II)       | 128Kbytes     | Variable Storage Space         | /         | /      | Data is not saved when power down                                                                                 |
| Nor Flash<br>(DGUS II) | 320Kbytes     | User database                  | /         | /      | Data is saved when power down                                                                                     |

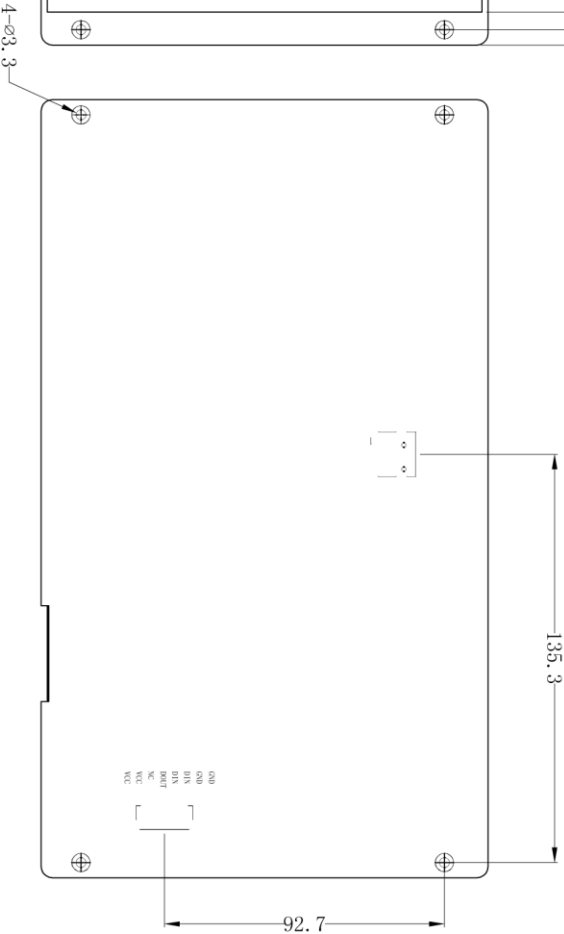
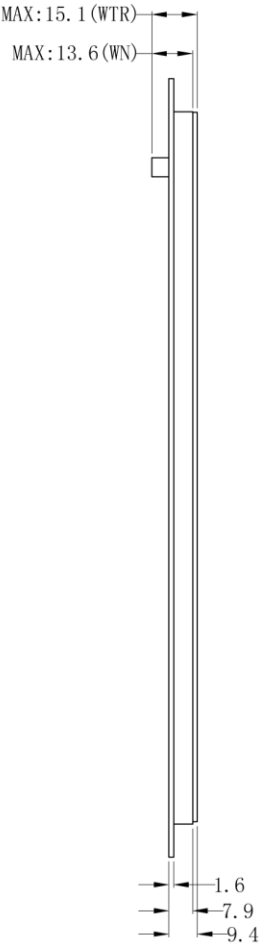
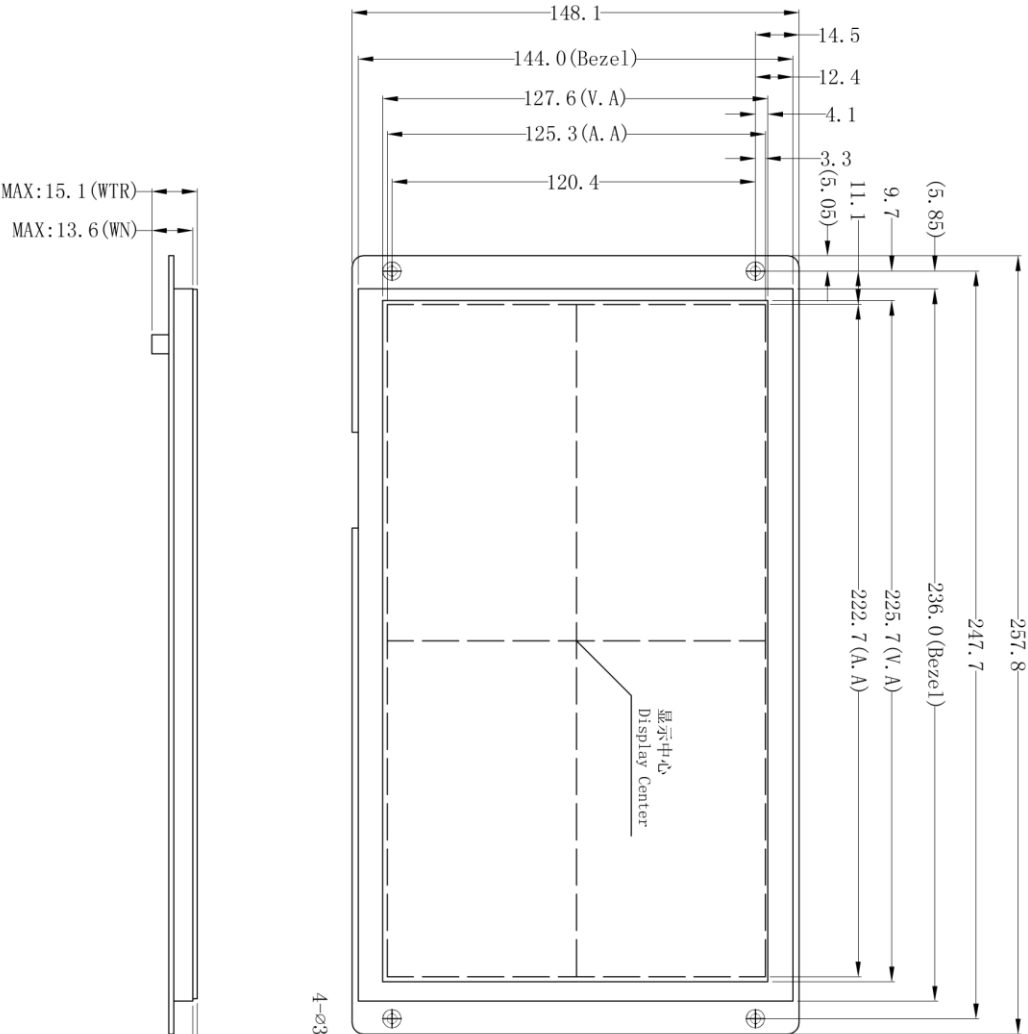
## ● UI & Peripheral

| UI & Peripheral |                                        |
|-----------------|----------------------------------------|
| UI Version      | TA / DGUS II ( DGUS II pre-installed ) |
| Peripheral      | Buzzer                                 |

## ● Packing Capacity & Dimension

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Remark: there is no extra-notice if the product design changes that do not affect performance parameters and use.



|      |      |   |                                 |
|------|------|---|---------------------------------|
| GND  | 7, 8 | P | Description Public Ground / GND |
| DIN  | 5, 6 | I | Din screen serial input DIN     |
| DOU7 | 4    | O | Din screen serial output DOU7   |
| NC   | 3    | - | Not defined                     |
| VCC  | 1, 2 | P | Power input                     |

1. Location hole is used as position reference.
  2. Unmarked Tolerance is +/-0.3mm
- Active area is marked in Dash lines

|                   |  |      |  |                   |  |  |  |
|-------------------|--|------|--|-------------------|--|--|--|
| DMG10600C101_03WN |  |      |  | DWIN Technologies |  |  |  |
| A 4               |  | DWIN |  |                   |  |  |  |
| MM                |  |      |  |                   |  |  |  |