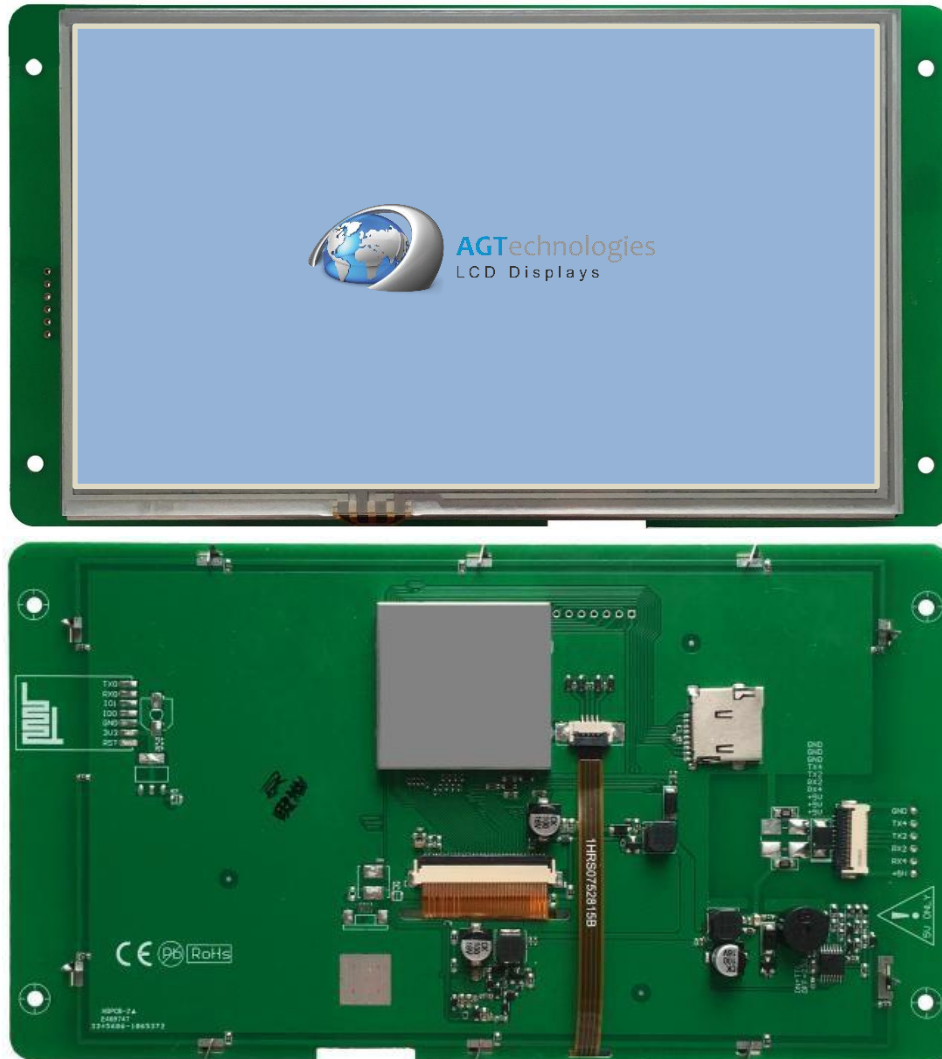


# AGM-070A0-I1-N

**Based on T5L ASIC 7.0 Inches, 800xRGBx480, 16.7M Colors, TN screen**

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



## Record of Revision

| Revise Date | Content                      |
|-------------|------------------------------|
| 2019-03-28  | First Edition                |
| 2019-08-22  | Modify Interface             |
| 2019-11-26  | Modify Interface Description |
| 2020-03-07  | Change bezel                 |

## ● Display

| Item              | Parameter               | Description  |
|-------------------|-------------------------|--|
| <b>Color</b>      | 16.7M (16777216) colors | 24 bit color 8R8G8B  |
| (A.A)             | 154.1mm (W) x85.9mm (H) | 800x480  |
| (V.A)             | 156.6mm (W) x89.1mm (H) | 800x480  |
| <b>Resolution</b> | 800x480                 | 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; DGUS II system:100 levels adjustment (It's not recommended 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>     | -                        | 4.5 | 5.0 | 5.5 | V    |
| <b>Operation Current</b> | VCC = +5V, Backlight on  | -   | 500 | -   | mA   |
|                          | VCC = +5V, Backlight off | -   | 150 | -   | mA   |

Recommended power supply: 5V 1A DC

## ● Reliability Test

| Item                       | Conditions          | Min | Typ  | Max | Unit |
|----------------------------|---------------------|-----|------|-----|------|
| <b>Working Temperature</b> | 60%RH at 5V 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     | nit |
|-----------------------------|---|------|--------|---------|-----|
| <b>Baudrate</b>             | User Set  | 3150 | 115200 | 3225600 | bps |
| <b>Output Voltage (TXD)</b> | Output 1, Iout = -4mA   | 4.78 | 5.0    | -       | V   |
|                             | Output 0, Iout = 4mA  | -    | -      | 0.4     | V   |
| <b>Input Voltage (RXD)</b>  | Input 1   | 2.5  | 5.0    | -       | V   |
|                             | Input 0   | -    | -      | 1.0     | V   |
| <b>Interface</b>            | UART2: Mode is determined by Jumper: (Default to RS232 mode)<br>ON=N81, 3.3V&5V TTL/COMS;<br>OFF=N81, RS232.<br>UART4: Mode is determined by Jumper: (be used after OS configuration)<br>ON=N81/E81/O81/N82, 3.3V&5V TTL/COMS;<br>OFF=N81/E81/O81/N82, RS232. |      |        |         |     |

|                |                         |
|----------------|-------------------------|
| <b>Socket</b>  | 10Pin_1.0mm FCC Socket  |
| <b>USB</b>     | None                    |
| <b>SD Slot</b> | YES (SDHC/FAT32 Format) |

- Memory**

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

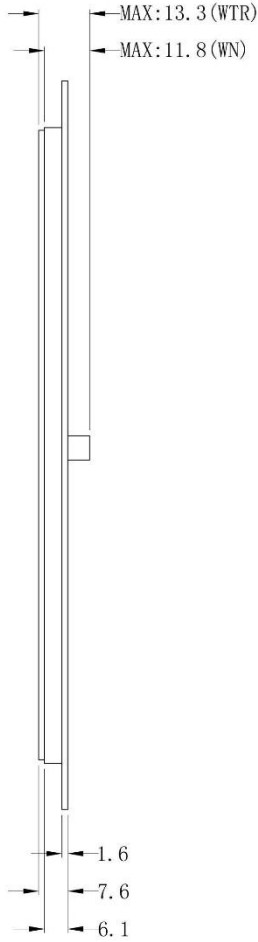
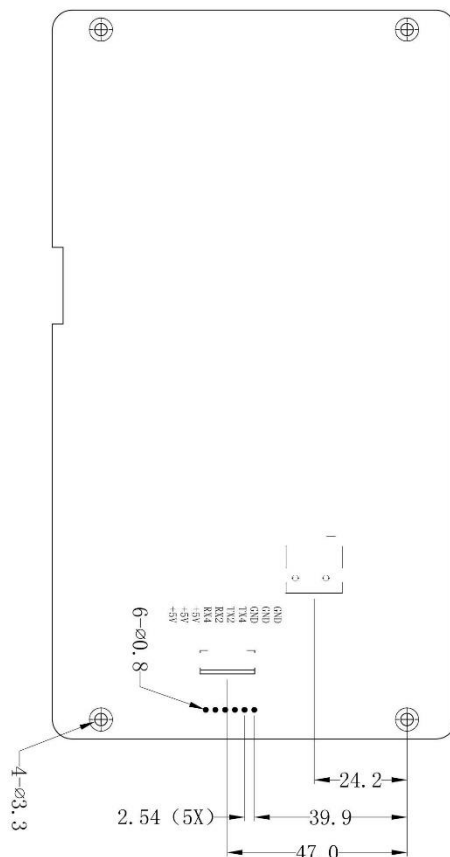
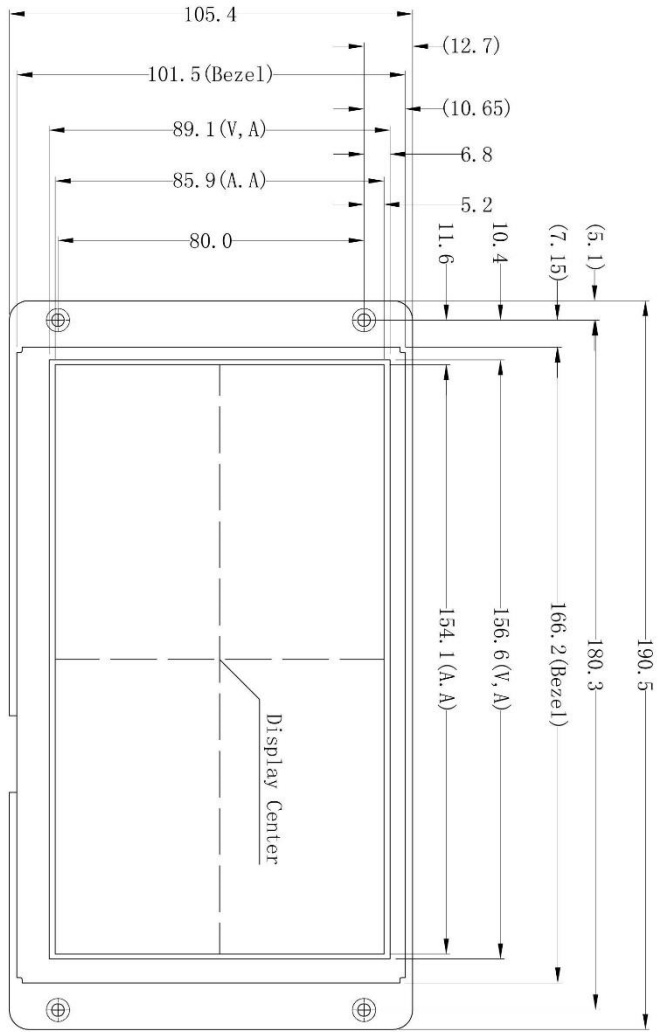
- UI & Peripheral**

| <b>UI &amp; Peripheral</b> |  |
|----------------------------|--|
| <b>UI Version</b>          | TA / DGUS II ( DGUS II pre-installed ) |
| <b>Peripheral</b>          | Buzzer                                 |

- Packing Capacity & Dimension**

| <b>Dimension</b>        |                                 |       |                |               |
|-------------------------|---------------------------------|-------|----------------|---------------|
| <b>Dimension</b>        | 190.5(W) ×105.4(H) × 11.8(T) mm |       |                |               |
| <b>Net Weight</b>       | 284g                            |       |                |               |
| <b>Packing Capacity</b> |                                 |       |                |               |
| Model                   | Size                            | Layer | Quantity/Layer | Quantity(Pcs) |
| <b>1 Carton1:</b>       | 220mm(L)×160mm(W)×47mm (H)      | 1     | 1              | 1             |
| <b>2 Carton2:</b>       | 250mm(L)×200mm(W)×80mm (H)      | 2     | 1              | 2             |
| <b>3 Carton3:</b>       | 320mm(L)×270mm(W)×80mm (H)      | 2     | 2              | 4             |
| <b>4 Carton4:</b>       | 450mm(L)×350mm(W)×300mm(H)      | none  | none           | none          |
| <b>5 Carton5:</b>       | 600mm(L)×450mm(W)×300mm(H)      | 1     | 40             | 40            |

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



|     |          |   |                                |
|-----|----------|---|--------------------------------|
| GND | 8, 9, 10 | P | Description Public Ground/ GND |
| TX4 | 7        | 0 | Dvin screen serial output DOUT |
| TX2 | 6        | 0 | Dvin screen serial output DOUT |
| RX2 | 5        | 1 | Dvin screen serial input DIN   |
| RX4 | 4        | 1 | Dvin screen serial input       |
| +5V | 1, 2, 3  | P | Power Input                    |

1. Location hole is used as position reference.
2. Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines

| Model | Drawing | Scale | Unit |
|-------|---------|-------|------|
|       | A 4     |       | MM   |