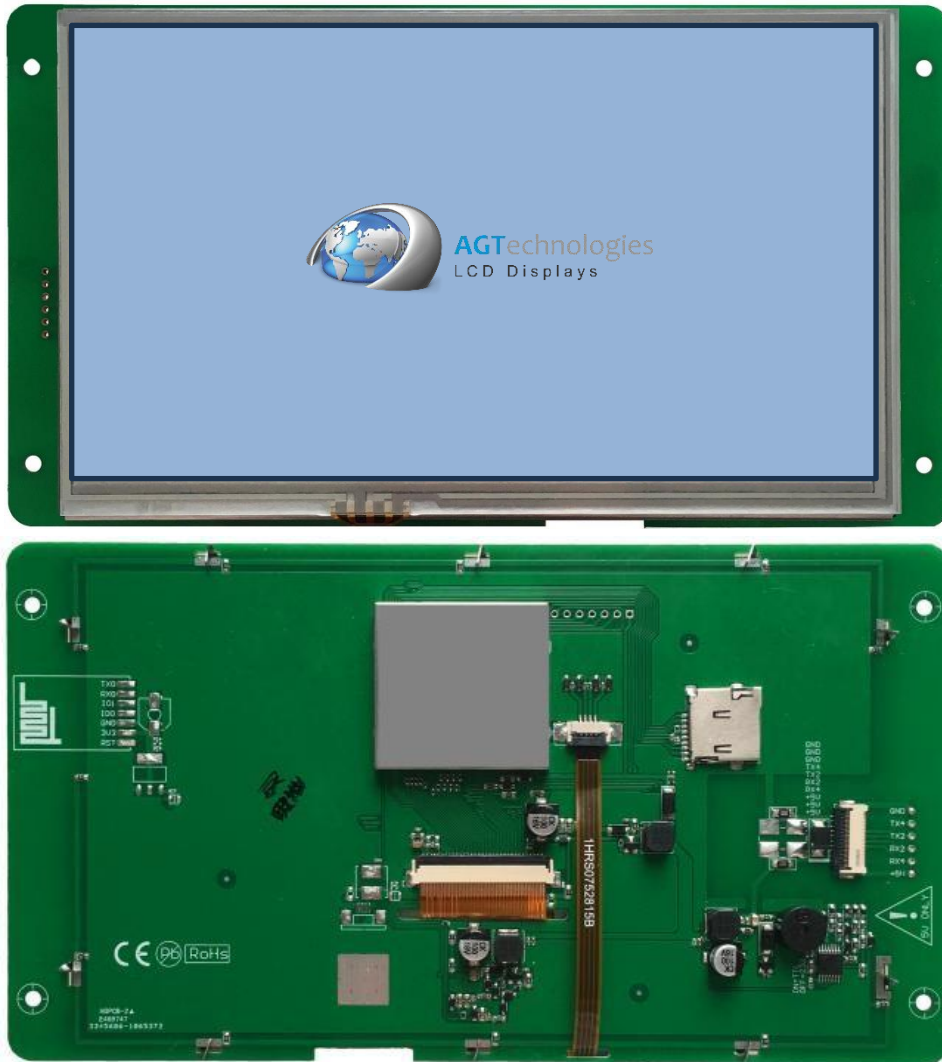


AGM-070A0-I1-R

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

RTP, 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
Color	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
Resolution	800x480	Support 0° /90° /180° /270° rotated display
Backlight	LED	≥ 10000H (Continuous working with maximum brightness, time of brightness halves)
Brightness	200nit	TA system:64 levels adjustment; DGUS II system:100 levels adjustment (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
Power Voltage	-	4.5	5.0	5.5	V
Operation Current	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
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	-	-

● Interface

Item	Conditions	Min	Typ	Max	nit
Baudrate	User Set	3150	115200	3225600	bps
Output Voltage (TXD)	Output 1, Iout = -4mA	4.78	5.0	-	V
	Output 0, Iout = 4mA	-	-	0.4	V
Input Voltage (RXD)	Input 1	2.5	5.0	-	V
	Input 0	-	-	1.0	V

Interface

UART2: Mode is determined by Jumper: (Default to RS232 mode)
 ON=N81, 3.3V&5V TTL/COMS;
 OFF=N81, RS232.

UART4: Mode is determined by Jumper: (be used after OS configuration)
 ON=N81/E81/O81/N82, 3.3V&5V TTL/COMS;
 OFF=N81/E81/O81/N82, RS232.

Socket	10Pin_1.0mm FCC Socket
USB	None
SD Slot	YES (SDHC/FAT32 Format)

● Memory

Item	Typical value	Features	Typ value	Unit	Description
FLASH (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 (.ICL file)	12-4	Mbytes	JPEG format (Picture quantity relate to JPEG size, size of a single JPEG image file should not exceed 256Kbytes)
RAM (DGUS II)	128Kbytes	Variable Storage Space	/	/	Data is not saved when power down
Nor Flash (DGUS II)	320Kbytes	User database	/	/	Data is saved when power down

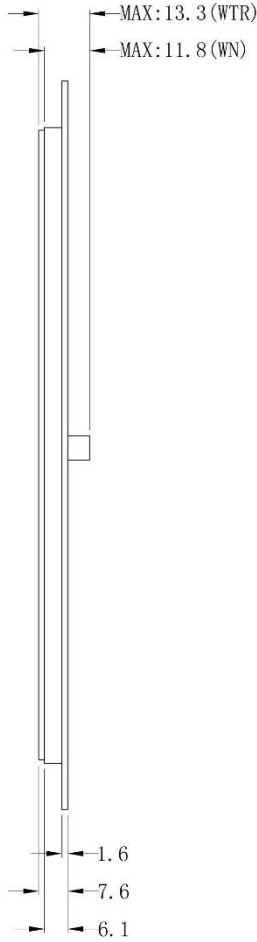
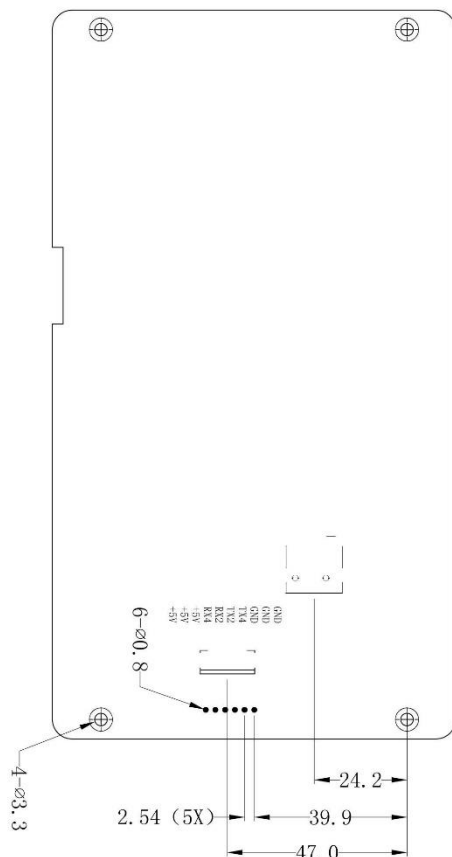
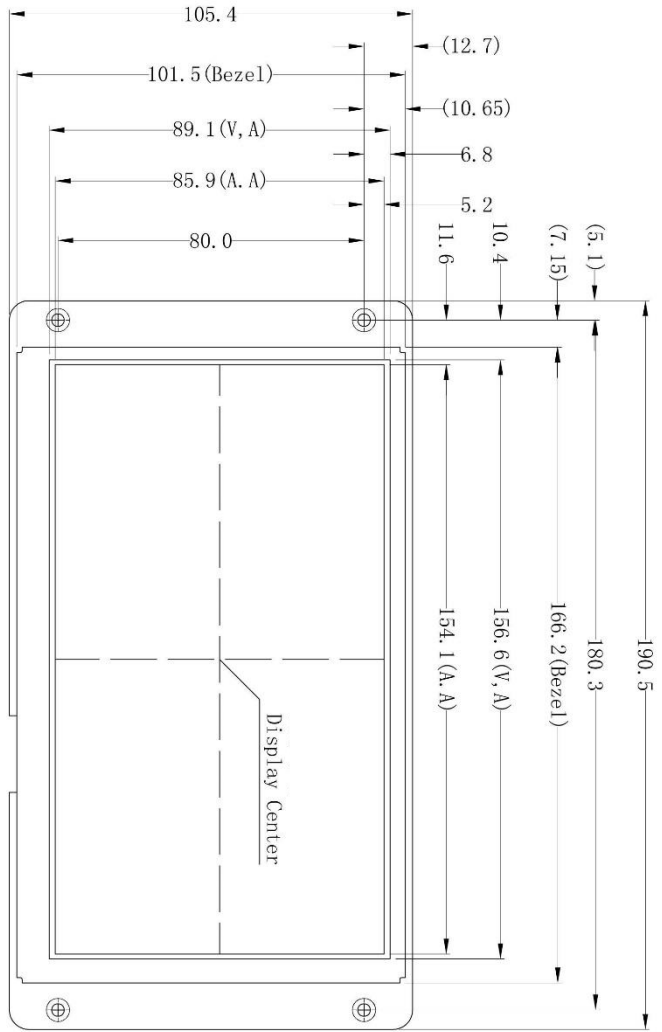
● UI & Peripheral

UI & Peripheral	
UI Version	TA / DGUS II (DGUS II pre-installed)
Peripheral	Resistive touch screen, Buzzer

● Packing Capacity & Dimension

Dimension				
Dimension	190.5(W) ×105.4(H) × 13.3(T) mm			
Net Weight	309g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
1 Carton1:	220mm(L)×160mm(W)×47mm (H)	1	1	1
2 Carton2:	250mm(L)×200mm(W)×80mm (H)	2	1	2
3 Carton3:	320mm(L)×270mm(W)×80mm (H)	2	2	4
4 Carton4:	450mm(L)×350mm(W)×300mm(H)	none	none	none
5 Carton5:	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