



**AGT**echnologies

# SPECIFICATION AGM-070R0-A2-C

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# **Revision History**

Date	Rev.	Page	Description
2015-05-23	1.0	All	First issue

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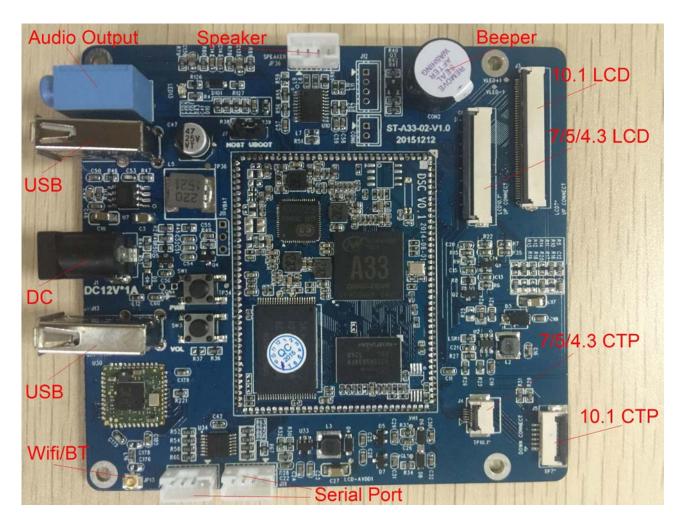
#### 1. General Features

AGM-070R0-A2-C is a HMI board working on Android operating system, designed for customer's convenience running their products under "Android" control unit. It supports RS232/RS485 interface with customer's MCU, by sending commands via RS232/RS485 interface from customized APP, customer would easily finish development for their application with control unit based on Android system.

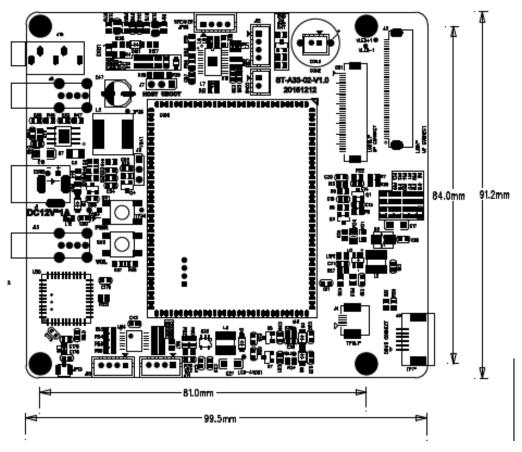
AGM-070R0-A2-C series works based on Android 4.4 operating system, uses Allwinner A33 SOC with 1.4GHZ frequency, integrated 4GB memory, supporting video playing, image viewing, VGA/Audio/LVDS/RGB signal output, RS232/RS485/ Ethernet /Wifi/3G/Bluetooth/USB interface etc.

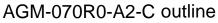
General Features			
CPU	Allwinner A33, 1.4G frequency		
Operation System	Android 4.4		
Memory	DDR 512M		
Internal Memory	FLASH 4GB		
RS232/RS485 interface	RS232/RS485 interface		
TFT LCD supported	3.5"~55" TFT LCD with RGB/LVDS interface		
CTP supported	CTP with I2C interface		
Internet connection supports	Ethernet/WCDMA 3G/Wifi/Bluetooth		
Camera supported	Maximum 500M Pixels		
Speaker Supported	Left/Right Channel		
Microphone	Microphone supported		
USB 2.0 interface	One OTG, two USB host, one USB inserter		
VGA output	VGA signal Output		
Audio Output	CVBS format output with left/right tracks		
Display Resolution Supports	Max 2160P		
Video Format supports	wmv、avi、flv、rm、rmvb、mpeg 、ts、mp4 etc		
Audio Format Supports	Mp3 etc		
Image format Supports	BMP、JPEG、PNG、GIF etc		
TF card	TF card integrated		
Beeper	Beeper integrated		
Real Time Clock supports	Supports Real Time Clock		
System Updates	Support System updates via USB interface		

# 2. Outline dimension and product pictures



AGM-070R0-A2-C with peripheral blocks, picture for reference





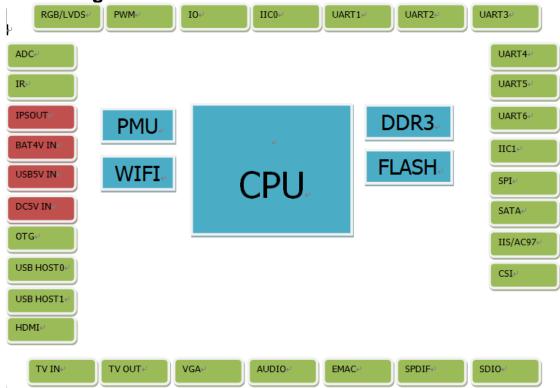


AGM-070R0-A2-C core board Front Side

# 3. Electrical specifications

Iten	Min	Typical	Мах	
Power Supply	DC12V input		12V	
Power Consumption	Operating current		500mA	800mA
Environment	Operating Temp	-10°C		60°C
Environment	Storage Temp	-20°C		70°C

#### 4. Block Diagram



## 5. Pin interface description in different function block

#### **RS232/TTL UART**

Pin 1	VCC 3V		
Pin 2	ТХ		
Pin 3	RX		
Pin 4	GND		

RS485/TTL UART Alternative, need customization

# Other peripheral blocks customized:

Operation System:	Android 4.4			
SOC:	All Winner A33,1.4G frequency			
Memory	DDR 512MB			
Internal Memory	FLASH 4GB			
Integrated Blocks	USB 2.0×2,TF card slot×1,beeper			
interface:	□RS232	□RS485		
PCBA General				
Outline:			•	
TFT LCD Size:	□no need	□need	Size:	Pixels:
CTP:	□no need	□need, Size:		
Ethernet:	□no need	□need		
Wifi:	□no need	□need		
Bluetooth:	□no need	□need		
WCDMA 3G Module:	□no need	□need		
Camera:	□no need	□need, resolut	ion:	
Speaker:	□no need	□need		
Microphone:	□no need	□need		
VGA Output:	□no need	□need		
Key Pad:	□no need	□need		
Other Blocks				
requires:				
Remark:				

# 6. Reliability Standard

No.	Test Item		Test Conditions	Remark
1	High Temperature	Storage	<b>70</b> ℃, 48Hr	
		Operation	<b>60</b> ℃, 48Hr	
2	Low Temperature	Storage	<b>-20</b> ℃, 48Hr	
		Operation	<b>-10</b> ℃, 48Hr	
3	High Temperature and High Humidity		40℃, 90%RH, 48Hr	
4	ESD Test		Air +/-8KV 5 times; Contact:+/-4 KV 5 times;	
5	Vibration Test(Storage)		50HZ, 30min, Amplitude: 2 cm, X/Y/Z directions	

## 7. Technical Service Supports

All peripheral blocks adjusted well by AGT Customer needs to download Android system SDK from Google website, then develop software commands based on RS232/RS485 protocal Suggest customer develop APP themselves

Experienced technical teams to share "Android" products development experience, details pls contact: projetos@agte.com.br