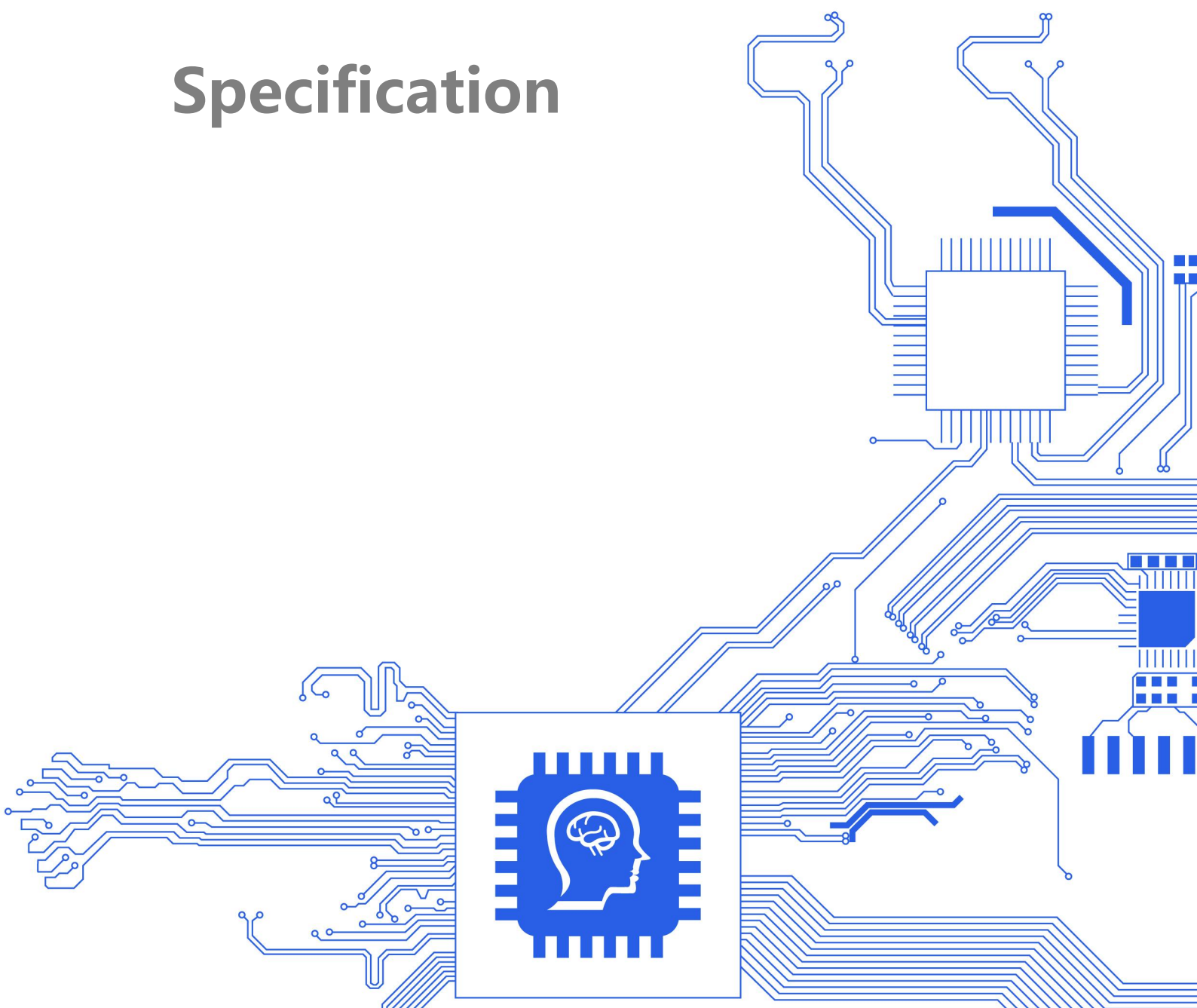
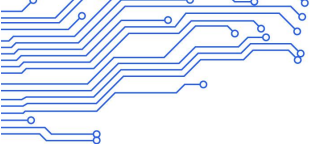


Mbox-3568A

Advertising Player

Specification





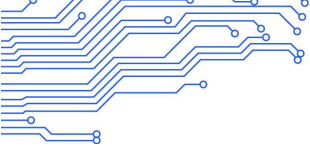
Document modification history

Version	Revision content	Revision	Check	Date
V1.0	Creation	Yuqiang Li	XXX	2022-7-12

Statement

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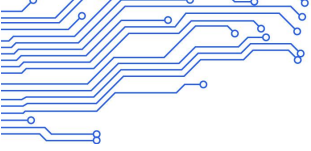


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Chapter 1 Product overview

1.1 Scope of application

Mbox-3568A Advertising Player is generally applicable to smart display terminal products, video terminal products, industrial automation terminal products, such as advertising machine, digital signage, smart self-service terminal, smart retail terminal, O2O smart device, Industrial control PC、 robot device etc.

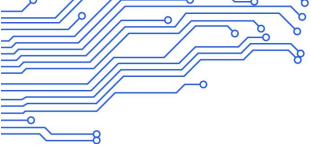
1.2 Product overview

MBox-3568A adopts Rockchip RK3568 (Cortex-A55x4) quad-core CPU, equipped with Android11 system, and the main frequency is up to 2.0 GHz, with super performance and rich interfaces. It is the best choice for human-computer interaction and industrial control projects, whether it is benchmark or decoding.

1.3 Product feature

- High definition. Support decoding at up to 4K 4096x2304.
- Built in PCI-E 3G module, support HUAWEI, LongShang and other PCI-E 3G/4G modules, support internet access and phone calls.
- TV + Box = Smart Advisement Player.
- Industrial appearance, ultra-thin design.
- Supports wifi/ Ethernet /3G/4G (Bluetooth 4.2 standard).
- Supports split-screen playback, horizontal and vertical playback, and auto-play on power-up.
- Supports picture and video rotation, scrolling subtitles, WORD, EXCEL, PPT.

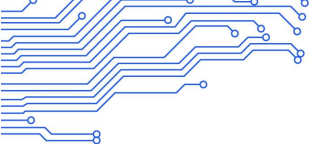




1.4 Appearance and interface diagram

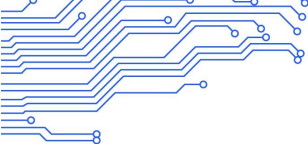
Front/Back:





Chapter 2 List of Basic Functions

Main functional parameters	
CPU	RK3568A, Quad-Core, main frequency is up to 2.0GHz
RAM/Storage	Standard 2G (4G optional) / Standard 16G (8/32/64G optional)
Built-in ROM	2KB EEPROM (Not included by default, optional)
HDMI output	1, standard Type-A female socket, up to 4Kx2K@60Hz resolution
Video format	Support mp4, mkv, wmv, mov, flv, etc.
Picture format	Support BMP, JPEG, PNG, GIF
Audio Output	Speaker headset audio output, speaker output (support left and right channel output, maximum support dual 20W / 4R, 10W / 8R)
Network support	3G/4G, Ethernet, WiFi support
USB port	1 USB3.0 OTG, 1USB HOST
Storage card	Support TF card
RTC real-time clock	Support
support timing switch	Support



Ethernet	1. Support 10/100/1000M adaptive Ethernet
WIFI、BT	Built-in WIFI, BT4.2 (standard)
3G/4G	Built-in WCDMA,EVDO, 4G full network, support network access and voice calls
System upgrade	Support local USB upgrade

Chapter 3 Power supply and product care

3.1 Power adapter

For your personal safety and the normal use of this product, please make sure that the AC power supply you provide meets the input information marked on the back of the product's power adapter; please use a three pin plug power socket with a reliable grounding terminal.

It is recommended to use the original power adapter of this machine. When the original power supply cannot be used under special circumstances, be sure to use the power adapter of the same specification.

3.2 Input characteristics

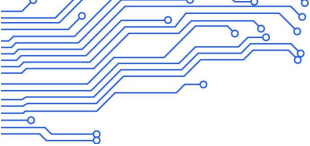
Input voltage range: from 90Vac-264Vac, one-way input.

	Min	Rating	Max
Input voltage	90Vac	100Vac-240Vac	264Vac
Input Frequency	47Hz	60Hz/50Hz	63Hz

3.3 Output characteristics

Static Output Characteristics <Output & Ripple + Noise>

Output	Rated Load	Output	Ripple and	remarks
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Rating	Min.	Max.	voltage range	noise	
+12.0V	0A	3A	+/-5%	50mVp-p	

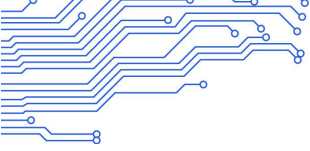
3.4 Box input characteristics

Input Rating	Rated Load		Output voltage range	Ripple and noise	remarks
	Min.	Max.			
+12.0V	0A	3A	+/-15%	50mVp-p	

Chapter 4 Assembly and Use Precautions

Please read the instructions and safety instructions of this guide carefully and strictly follow them during use. This will help prevent damage to the computer mainframe, extend the service life, ensure your normal use and computer maintenance, and ensure your personal safety.

1. Please read the relevant documents attached directly, if you have a folder, please be sure to read it first.
2. Follow all safety warnings and signs on this product.
3. Please use the original power adapter or only use the product according to the type of power supply indicated in this product.
4. In thunderstorms, please do not plug or unplug the network cable, power cord and other electrical conductors that may be connected to the outside world.
5. Unplug the power before cleaning the product. Do not use liquid, spray or wet cloth to clean.

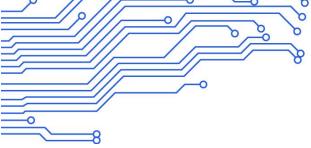


6. Please do not disassemble the machine. Do not attempt to repair the product yourself.
Please have this work done by an authorized professional.
7. Don't put your computer near a heat source.
8. Pay attention to moisture. Never spill water or other liquid on the computer. If the following conditions occur, immediately unplug the main unit. The following special circumstances need to be repaired by professional maintenance personnel.
 - a. The power cord or plug is damaged.
 - b. A conductive liquid is splashed into the product.
 - c. The product has been dropped or the product casing has been severely damaged.
 - d. Unexplained errors or significant performance changes in the product cannot be ruled out after regular failure guidelines.

Chapter 5 Common Troubleshooting

Mbox-3568A Advertising Player products have been rigorously tested before leaving the factory. The products are durable and the problems encountered during use may be caused by the settings and operations encountered during your use. Or some device compatibility issues. This common troubleshooting information can help you resolve some simple operational issues or identify the cause of a repair failure.

1	The computer did not	Please confirm that the host and monitor are powered
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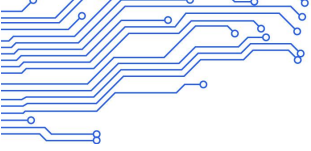


	respond after booting.	normally and the host adapter is powered.
2	The host automatically shuts down for no reason.	Please check if the power is off and the power adapter is loose.
3	The host automatically restarts without cause.	Please check if the one-button restore button is placed close to the outside of the board (normally close to the board).
4	Display image but no sound when playing video.	Check if the audio output settings match (Codec/HDMI) and are muted.
5	Network cannot connect.	Check if the network connection or router is normal and the network parameter settings are normal.

Note: 1) If the host accidentally enters water or infiltrates conductive liquid, please cut off the power immediately, wipe the liquid with a paper towel, and do not blow it with a hot air blower.

If the situation is extremely serious, it is recommended to contact the after-sales service immediately for consultation or inspection.

2) If the main unit is damaged due to the accidental sliding of the main unit, the main board is damaged. Please contact the after-sales service immediately for repair.



Chapter 6 Assembly and Use Precautions

1. Please make sure not to install and assemble peripherals with power on the board, and be sure to wear anti-static tools such as an electrostatic bracelet during installation;
2. When connecting peripherals through wires, please ensure that the pin definitions of each peripheral correspond to the motherboard sockets to avoid short circuits due to incorrect wiring sequence;
3. When fixing the motherboard with screws, pay attention to uniform force on the board to avoid PCB open circuit due to deformation of the board;
4. When installing the interface of optional screen (such as LVDs, eDP, etc.) voltage , please note that the selected voltage is consistent with the screen specifications;
5. When installing peripherals (USB, UART, IO.etc), pay attention to peripheral IO levels and current output capabilities
6. When installing the serial port, pay attention to the level type matching and the corresponding connection of TX, RX, 485-A, 485-B;
7. The selection of input power supply needs to evaluate whether the input power supply voltage, total current, etc. can meet the requirements according to the total peripherals;
8. When designing the whole machine, the limit of height and heat dissipation of the board should be considered.