



PRODUCT SPECIFICATION

LCD Android Box

HD-3568S-BOX

Version: V1.2

Update History

Version	Release time	Description
V1.2	Sep. 9, 2023	Updated product name.
V1.1	Aug. 30, 2023	First official release.

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Chapter I Product Description

I. Overview

HD-3568S-BOX is a well-built all-in-one LCD Android smart play box, using Rockchip RK3568 quad-core chip solution, equipped with Android 11.0 system, main frequency up to 2.0GHz, with super performance. Using Mali-G52 GPU, support 4K/H.265 hard decoding, 1080P video decoding. Supports U-disk, TF card, Wi-Fi, network port and other interfaces, making the product more versatile, and is widely used in intelligent control fields such as advertising machines, interactive all-in-one machines, security, medical care, transportation, finance, industrial control, etc.

II. Features

- **High performance.** RK3568 chip adopts quad-core ARM Cortex-A55 architecture, the main frequency can be as high as 2.0GHz, capable of playing various formats of high-definition video screens, and capable of handling complex interactive operations.
- **High stability.** The RK3568 Android integrated board adds its own unique technology to the hardware and software to ensure the stability of the product, so that the final product can be unattended for 7*24 hours.
- **High integration.** Integrates functions such as Ethernet, Wi-Fi, TF expansion card, USB expansion port, HDMI interface output, etc., which greatly simplifies the installation of the whole machine.
- **High definition.** Supports LCD display screens with HDMI interface, and supports cropping screens of various sizes and resolutions.

Chapter II Specifications

I . Basic Parameters

1. Hardware Parameters

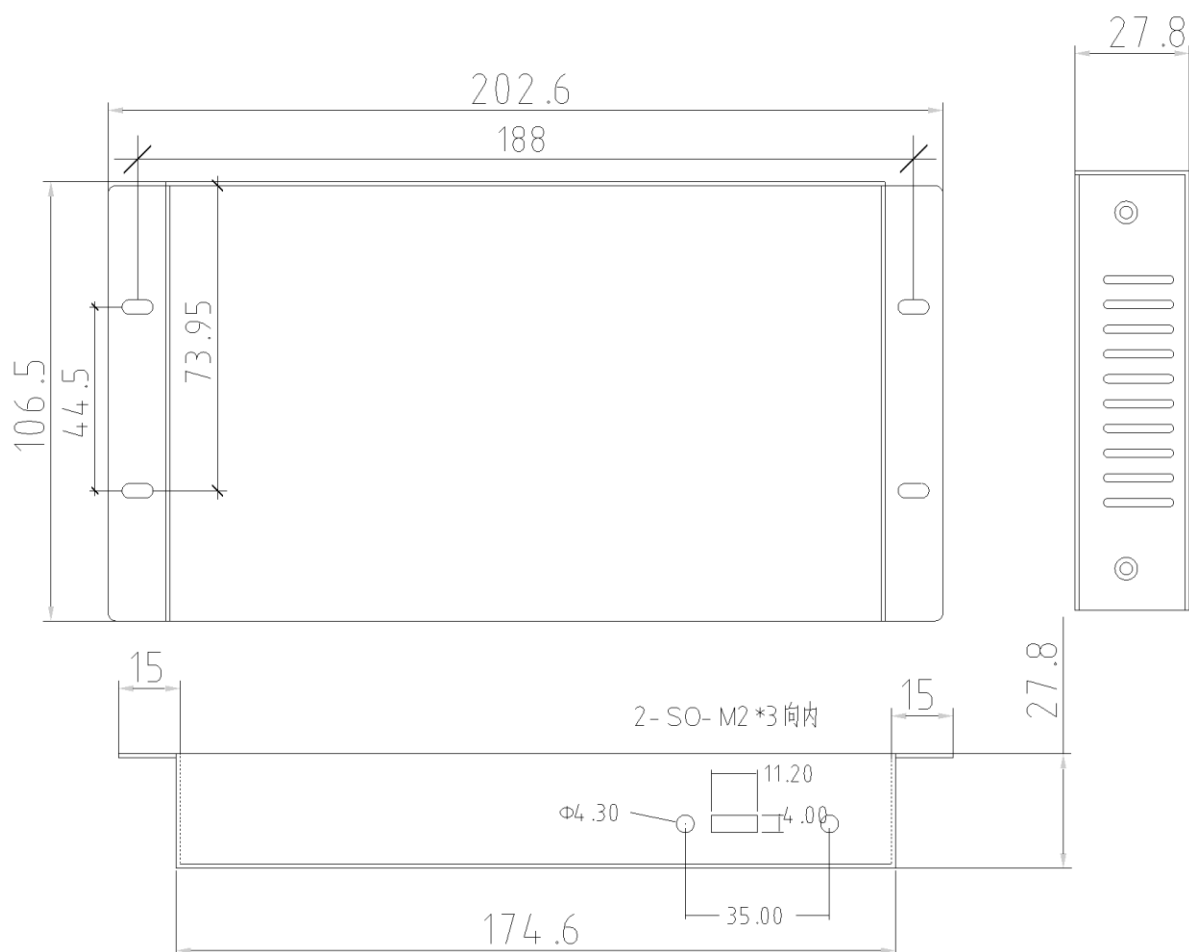
Hardware Parameters	
CPU	RK3568, Quad-core, the highest frequency 2.0GHz
GPU	Mali-G52 GPU supports OpenGL ES 1.1/2.0/3.2, OpenCL 2.0 and Vulkan 1.1
RAM/ Storage	Standard 2GB+32GB、4GB+32GB、4GB+64GB、8GB+64GB、8GB+128GB
Connection	Support RJ45 100M Ethernet port and Ethernet. Equipped with 2.4GHz Wi-Fi (support optional 5GHz) and Wi-Fi 802.11b/ g/ n protocol.
Image rotation	Support 0 degree, 90 degree, 180 degree, 270 degree manual rotation
Display interface	1*HDMI interface output
Audio	Support standard left and right channel line output
RTC	Built-in real-time clock function
USB	1*USB 3.0 HOST, 1*USB 3.0 or OTG
LED	1 * power status LED (green), 1 * system LED (green, blinking by default)
Button	1 * Recovery button
Power Adapter	Input: AC100-240V.50-60Hz, output: DC12V 1.5A (Requires that the surge voltage is less than 18V and the ripple voltage is less than 100mV)
Storage Humid	10% ~ 90% RH
Storage Temp	-40℃~70℃
Work Temp	-20℃~70℃

2. Software Parameters

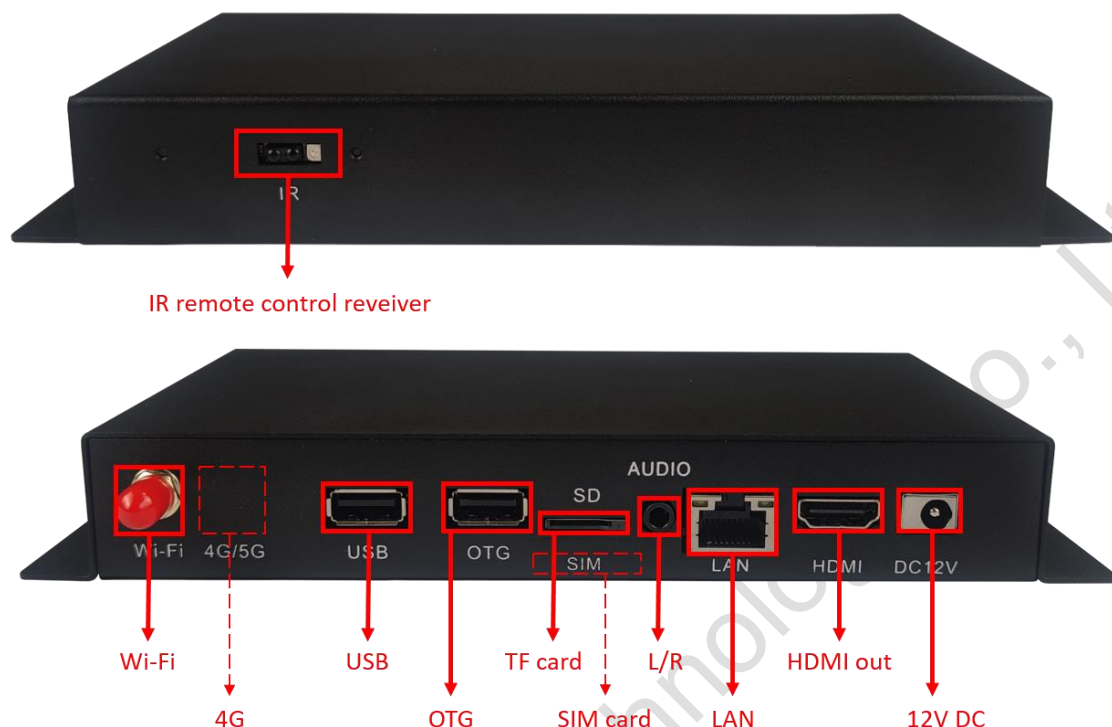
Software Parameters	
Operating system	Android 11.0
Audio	MP3,WMA,WAV, APE, FLAC, AAC, OGG,M4A,3GPP, etc.
Video	Support H.264, VP8, MAV, WMV, AVS, H.263, MPEG4 and other video formats
Image	Support various picture formats such as JPG, BMP, PNG
System comes with application software	APK installer, email, calculator, browser, recorder, calendar, settings, clock, video player, search, contacts, gallery, download, camera, music, explorer, etc.
Language	support multi-language
Typewriting	Standard Android keyboard, optional third-party input method
System Management	The original ecological Android system, open root permissions, can be customized product development
	Real-time remote monitoring, self-recovery of system crash, 7 * 24 hours unattended
	Support OTA remote upgrade; support U-disk upgrade
	Support boot animation definition
	Support server / standalone mode switch
	Support Wi-Fi hotspot
System watchdog	Support software watchdog

II. Product Size Specifications

Side interface size (boxed)



III. Schematic Diagram of Product Interface



IV. Interface Parameter Description

1. PWR / DC (power input) Interface

12V DC power supply is used to supply power to the board subsystem only from the DC socket and power Socket.



Note: The inner diameter of the DC power port is 2.0mm, and the outer diameter is 5.8mm.

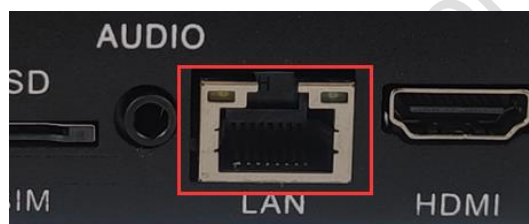
2. HDMI Output

Connect to the LCD screen for program display



3. LAN Port

Connect to the Internet/LAN to realize Internet remote cluster management and LAN cluster management.



4. Audio Interface

1. Standard 3.5mm dual-channel audio interface, which can be directly connected to low-power speakers or amplifiers.
2. The reset hole is hidden in the audio port. Long press with a long reset needle to restore the factory settings.



5. TF Card Slot

Insert the TF card to update the program content.



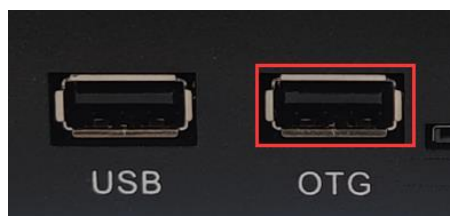
6. SIM Card Slot (Optional)

Install the 4G mobile phone card interface, and realize remote cluster management after connecting to the Internet (4G module needs to be installed, 4G module is not standard configuration, according to user needs to install before leaving the factory).



7. OTG Port

Upgrade firmware and other functions, in the system use the toolbox can be changed OTG/USB mode.



8. USB Port

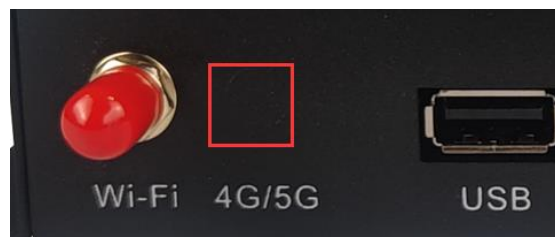
Insert the U disk to update the program of the display screen. One of the USB interfaces can be switched to

OTG or USB interface through jumpers (OTG and USB need to be set before the factory).



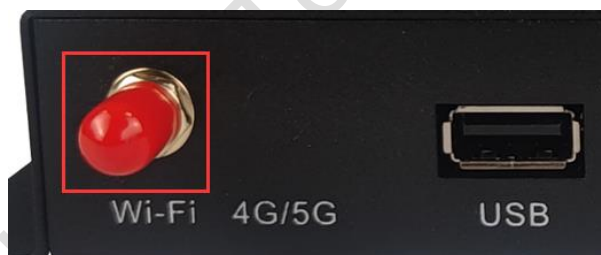
9. 4G Antenna Port (Optional)

Connect 4G antenna to enhance 4G signal. (Non-standard interface, closed by default)



10. Wi-Fi Antenna Port

Connect Wi-Fi antenna to enhance Wi-Fi signal.



11. IR Receiver Port

Receiving remote control signal, setting and programs switching.



Chapter III Communication Methods

I. Update Programs by Wi-Fi



II. Update Program with U-disk

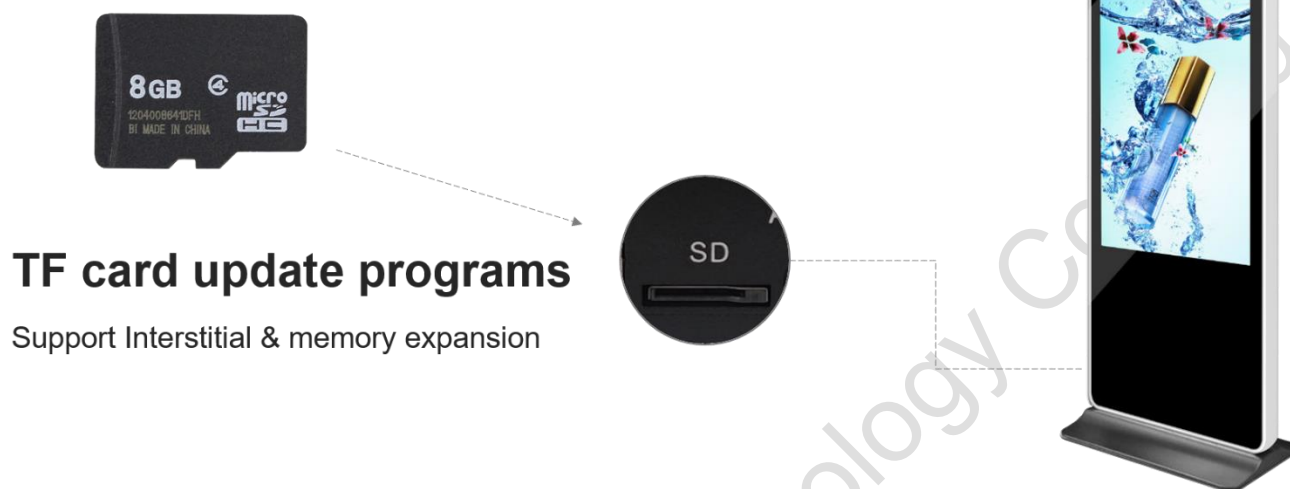


U-disk update programs

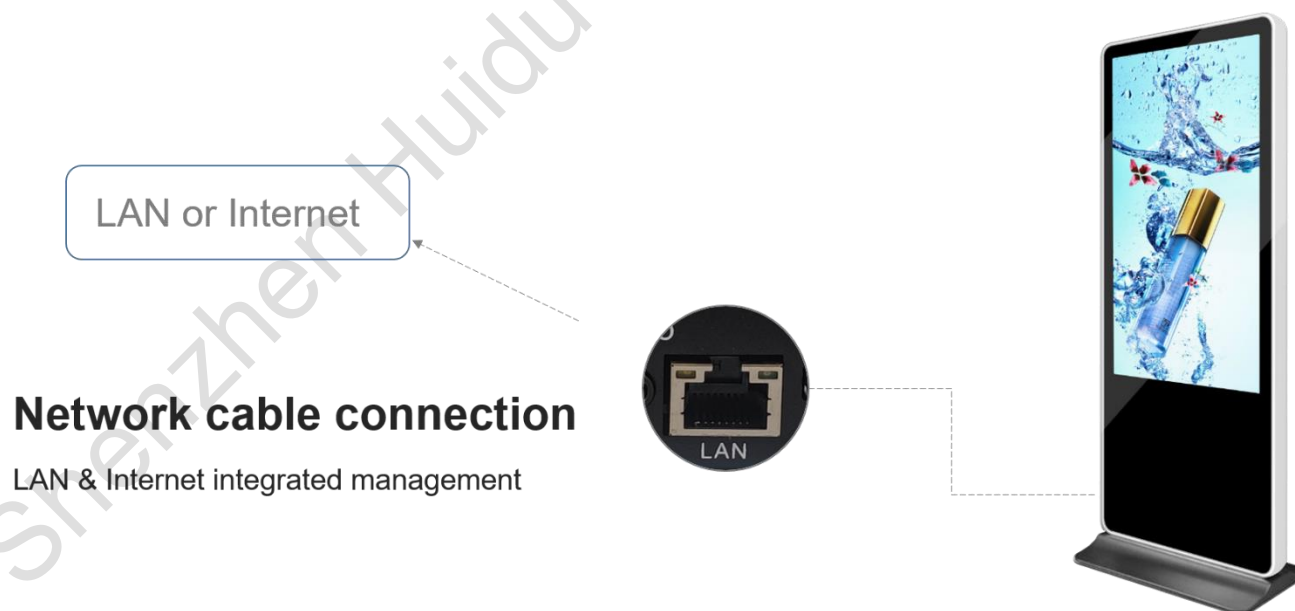
Support Interstitial & memory expansion



III. Update Program by TF Card



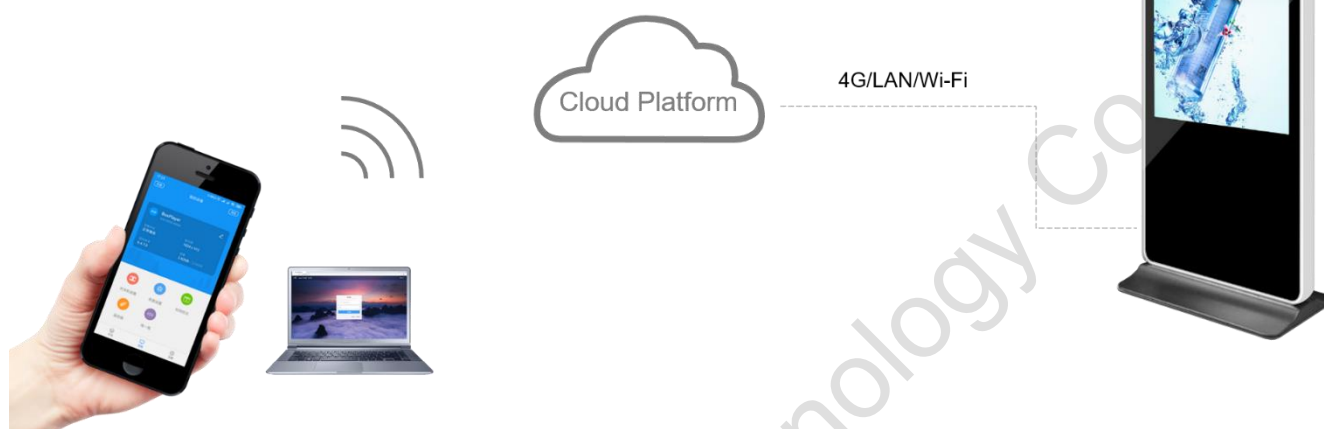
IV. Update Programs with LAN



V. Update Programs by the Internet

Internet remote management

Anytime & anywhere operation available



Chapter IV Appendix: Product Appearance





Note:

1. The 4G module is an optional accessory, installed in the playback box before leaving the factory;
2. Non-standard features, the picture of the specification may be slightly different from the actual product, if you have any questions, please contact Huidu Technology for confirmation.