# PRODUCT SPECIFICATION

LCD Display Multimedia Player

**HD-3568B**

V1.1

Shenzhen Huidu Technology Co., Ltd.

# 目录 Contents

# Chapter 1 Product Overview

## Ⅰ. Overview

HD-3568B 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. Due to its hardware platform and Android intelligent features, it can be used on the smart terminal motherboard when human-computer interaction or network device interaction is required, which can be your best choice.

## Ⅱ. Features

- High performance. RK3568 chip adopts quad-core ARM Cortex-A55 architecture, the main frequency can be as high as 2.0GHz, compared with common single-core, dual-core and quad-core solutions on the market. A qualitative leap in performance, capable of playing various formats of high-definition video screens, and capable of handling complex interactive operations

- High stability. The RK3566 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, power amplifier, TF expansion card, USB expansion port, HDMI, 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.

## HD-3568B

# Chapter 2 Product Specifications

## Ⅰ. Basic parameters

## 1. Hardware Parameters

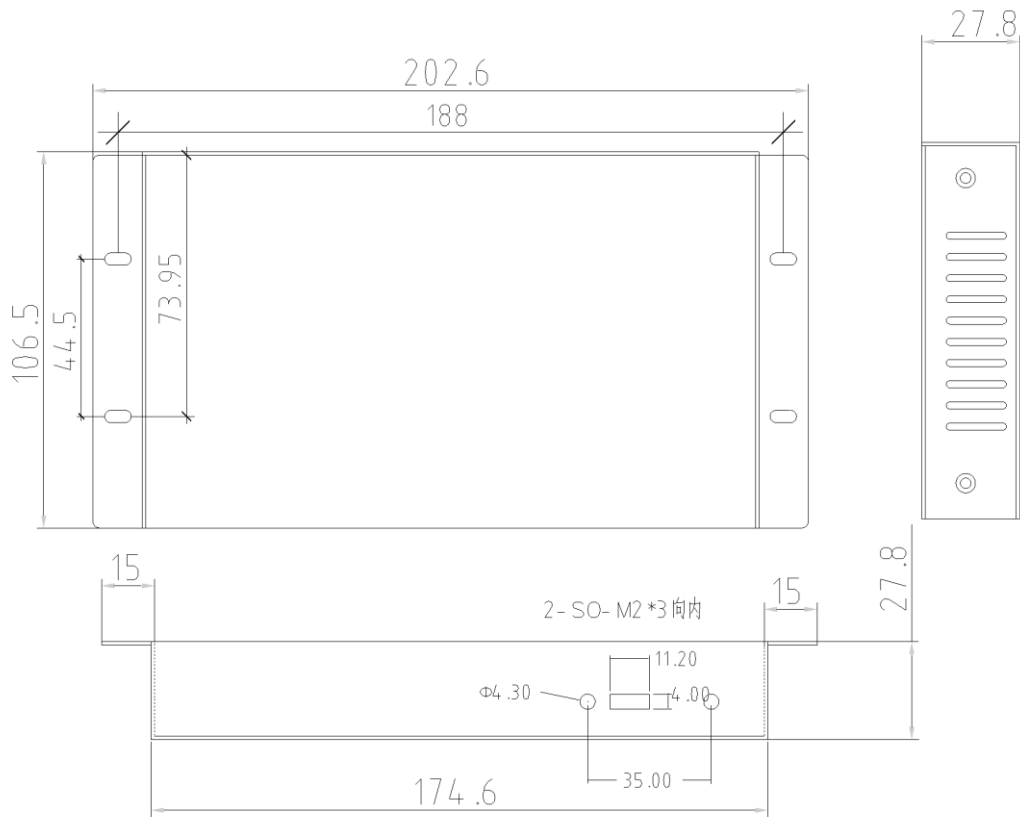| Hardware specifications | |
|---|---|
| CPU | RK3568, Quad-core, the highest frequency 2.0GHz |
| GPU | Mali-G52 GPU supports OpenGL ES 1.1/2.0/3.2, OpenCL 2.0 and Vulkan 1.1 |
| RAM | DDR3, default 2GB (optional 4GB) |
| Built-in storage capacity | eMMC 16GB (32 GB)<br>TF Card expansion (can be used to expand SSD) |
| Connection | Support RJ45 100M Ethernet port and Ethernet.<br>Equipped with 2.4G Wi-Fi 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 output |
| Audio | Support standard left & right channel line output |
| RTC | Built-in real-time clock function |
| USB | 1USB-2.0 HOST, 1 USB2.0 or OTG |
| LED | 1*power status LED(green),1*system LED(green blinking in default) |
| Button | 1 * Recovery button |
| Power Adapter | Input: AC100-240V.50-60Hz, output: DC12V 1.5A<br>(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
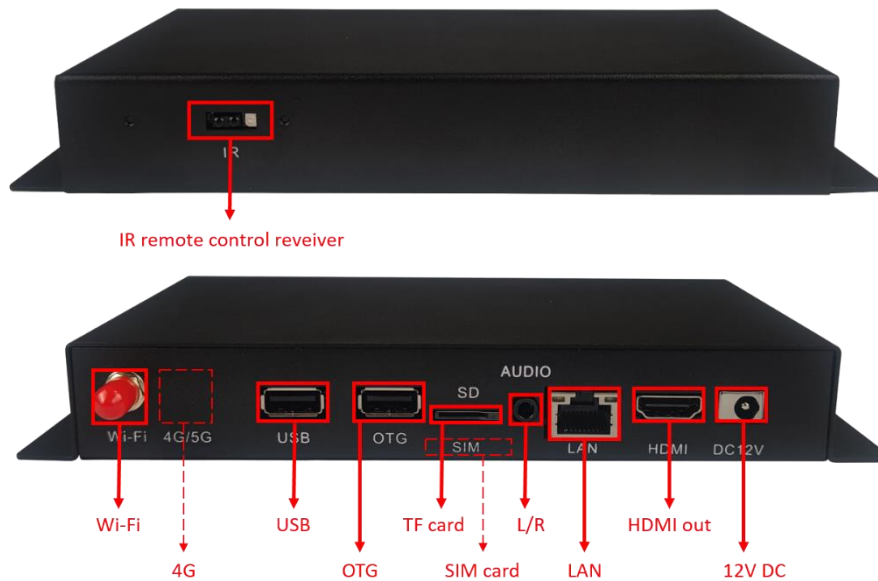
| Software specifications | |
|---|---|
| Operating system | Android 11.0 |
| Audio | MP3, WMA, WAV, APE, FLAC, AAC, OGG, M4A, 3GPP, etc. |
| Video | Support H.265, VP8, MAV, WMV, AVS, H.263, MPEG4 and other video formats<br>1080P multi-video decoding |
| Image | Support various picture formats such 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. Product Interface Diagram



IR remote control reveiver

Wi-Fi

4G

USB

OTG

TF card

SIM card

L/R

LAN

HDMI out

12V DC

AUDIO

Wi-Fi    4G/5G    USB    OTG    SD    SIM    L/R    LAN    HDMI    DC12V

# 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.
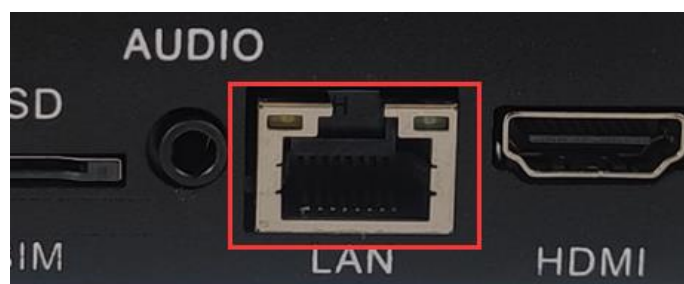


## 2、 HDMI Output

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 and Reset Control

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, the box can be customized as a USB interface through jumpers before assembly.
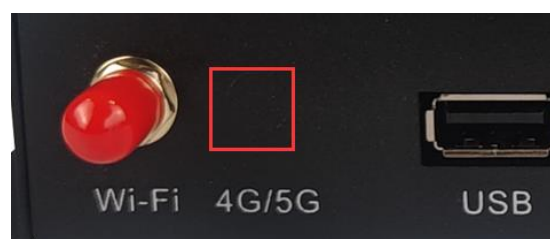


# 8、USB Port

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 3 Communication Methods

## Ⅰ. Update Programs by Wi-Fi



No Server required

**Mobile APP management**

**Mobile APP-"LedArt" download**

Search and download "LedArt" in major mobile phone application markets, or scan the following QR code to download and install



QR code download

## Ⅱ. Update Program with U-disk

### U-disk update programs

Support Interstitial & memory expansion
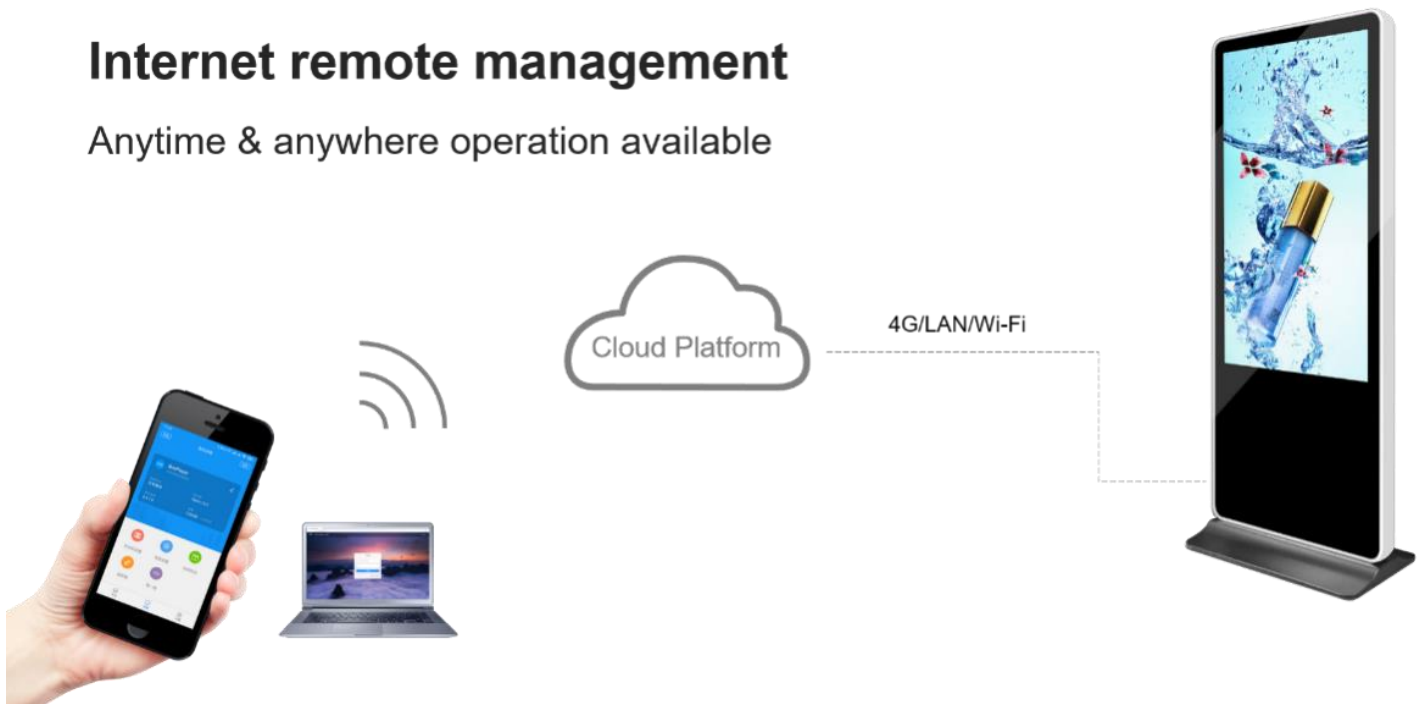
USB

## Ⅲ. Update Program by TF Card

8GB microSDHC
1204008641DFH
BI MADE IN CHINA

### TF card update programs

Support Interstitial & memory expansion

SD

## IV. Update Programs with LAN

LAN or Internet

## Network cable connection

LAN & Internet integrated management

LAN

## V. Update Programs by the Internet

## Internet remote management

Anytime & anywhere operation available

Cloud Platform

4G/LAN/Wi-Fi

# Chapter 4 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;