

IoTBOX-3288M

User Manual

The History of Modification

Version	Description	Date
V1.0	Creation	2018-4-9
V1.0	Maintenance	2018-5-2
V1.1	Maintenance	2018-6-6

Contents

Chapter One Overview	3
1.1 Overview.....	3
1.2 Features	3
1.3 Appearance and Interface Diagram	4
Chapter Two Product Hardware Index	5
Chapter Three Power supply and Maintenance	6
Chapter Four Assembly and Use Precautions	7
Chapter Five Common Debugging.....	8

Chapter One Overview

1.1 Overview

IoTBOX-3288M commercial box, its CPU uses a Rockchip RK3288 Cortex-A17 quad-core processor with Android 5.1 system, and the dominant frequency can be up to 1.8 GHz. It uses Mali - t764 GPU and supports 4k, H.265 hard decoding. In terms of storage, the box can select 8G to 32GB EMMC or 16G to 256G SSD with MSATA interface. In terms of interface, it supports VGA, Ethernet, HDMI, WIFI, Bluetooth. This product is very suitable for connecting with the commercial interactive touch screen.

1.2 Features

ROM and RAM can be configured according to customer needs.

Multiple extension interfaces with 4 USB interface.

With double screens, it not only supports the two 4k decoder of VGA, HDMI or LVDS, but also has the 1080P output function.

It supports horizontal and vertical screen play, video split screen, scrolling subtitles, timing switch, USB data import and other functions.

The four USB ports have only one OTG port(near the light), which can exchange data with the computer, while the other ports can only be used to expand storage space or play It supports headphones and MIC audio input and output.

1.3 Appearance and Interface Diagram

The front view:



The back view:



Chapter Two Product Hardware Index

The Main Product Hardware Index	
Size	105*115*30mm
CPU	RK3288, Quad-core, Main frequency 1.8GHz, Android 5.1.1
Memory/Storage	Standard 2G (4G optional) / Standard 16G (8/32/64G optional)
Internal ROM	2KB EEPROM(Default without, but optional)
VGA Output	One supports 1080P Output
HDMI Output	One supports 1080P@120Hz, 4kx2k@60Hz Output
LVDS Output	One Single Way and one double way, and can drive 50/60Hz LCD screen
Video Format	Support wmv, avi, flv, rm, rmvb, mpeg, ts and mp4
Image Format	Support BMP, JPEG, PNG, GIF
Earphone Output	Support one way three/four segment headphone insertion
Audio Input	Support one MICIN
USB2.0 interface	4 ↑ USB
Serial Port	Standard DB9 interface
Ethernet	One 10/100M adaptive Ethernet
WIFI, BT	Internal WIFI, BT4.0 (optional)
TF Card	Support
RTC Real Time Clock	Support
Timer switch	Support
System Upgrade	Support local, TF and USB upgrade
Relative humidity	≤80%
Operating temperature	0°C~+60°C
storage temperature	-20°C~+70°C

Chapter Three Power supply and Maintenance

1. Power Adapter

For your personal safety and normal use of this product, please make sure that the AC power you provide is consistent with the input information on the back of the product's power adapter. Moreover please use a three-prong power outlet 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.

2. Input Features

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. Output Features

Static Output Characteristics <Output, Ripple and Noise>

Output Rating	Specified Load		Output voltage range	Ripple and Noise	Remarks
	Min.	Max.			
+12.0V	0A	2A	+/-5%	50mVp-p	

Chapter Four Assembly and Use Precautions

Please read this 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 as well as ensure your personal safety.

Please read the relevant documents that are included with the first reading. If you have a folder, please read it first.

Please follow all safety warnings and signs on this product.

Please use the original power adapter or only use the product according to the type of power source indicated in this product.

In thunderstorms, please do not plug or unplug the network cable. The power cord may be connected to the outside world.

Unplug the power before cleaning the product. Do not use liquids, sprays or wet wipes.

Please do not disassemble the machine, do not try to repair the product yourself, please do this work by an authorized professional.

Do not place your computer near a heat source.

Pay attention to moisture. Do not spill water or other liquids 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.

1. The power cord or plug is damaged.
2. The conductive liquid is splashed inside the product.
3. The product has been dropped or the product casing has been severely damaged.
4. Unexplained errors or significant performance changes in the product cannot be ruled out after regular failure guidelines.

Chapter Five Common Debugging

IoTBOX-3288M commercial box products have been rigorously tested before leaving the factory, and the products are durable. The problems encountered during use may be caused by the settings and operations encountered during your use. Or I have encountered some problems with device compatibility. 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 respond after booting.	Please confirm that the host and monitor are powered 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 restore button is placed on the outside of the board (normally it is close to the board).
4	Display images but no sound when playing the video.	Check if the audio output settings match (Codec/HDMI) and are muted.
5	Network cannot be connected.	Check if the network connection or router is normal and the network parameter settings are normal.
6	External USB device cannot be recognized.	Check if the external device is plugged into the OTG port, and the Connect to PC status is checked in Settings -> USB".
<p>Note: 1. If the host accidentally enters water or infiltrates the conductive liquid, immediately turn off the power, 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.</p> <p>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.</p>		

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,

uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This equipment complied with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

EU Regulatory Conformance

Hereby, we (Shenzhen Smart Device Technology Co., LTD) declared that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU



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