



4K WLAN/LAN Connected Display Receiver

Model Name: EZCast Mini Box



Version 1.02

02/13/2020

Revision History

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Rev	Date	Reason for Changes
1.00	2019/12/29	• 1 st Official release
1.01	2020/01/06	• Fix resolution
1.01R	2020/01/17	• Minor revisions
1.02	2020/02/13	• Correct device power consumption • Update certificate information
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1.0 Introduction

1.1 Brief

This document provides an overview of the requirements for the EZCast Mini Box. EZCast Mini Box is a multi-purpose 4K WLAN/LAN display receiver. It integrates dual band 2.4Ghz and 5Ghz WiFi module and dual high sensitivity antennas. Gigabit Ethernet provides the stable LAN connectivity for external connection. We've developed completed apps on broad OS platforms, and it's compatible with latest EZAir (iOS/macOS mirror compatible), Miracast, DLNA, Youtube TV and Google Home Mirror standards.

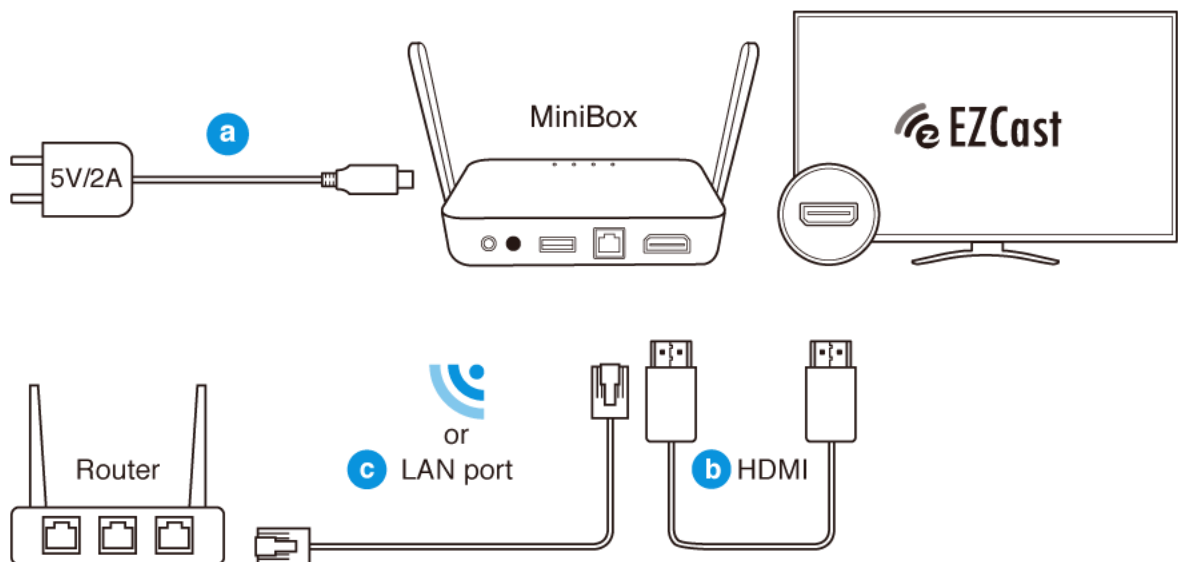
Model	EZCast Mini Box
Main Chip	AM8270
Network	IEEE 802.11ac 2.4GHz/5GHz 2T2R Bluetooth RJ-45 10/100/1000 Ethernet
Display Output	HDMI 3840x2160/30p, 1920x1080/60p, 1280x720/60p, 1024x768/70p(4:3), 1280x960/85p(4:3)
Function	EZCast, EZAir, DLNA, Miracast, Google Home, Voice Control
Support OS	Android/iOS/Windows/macOS /ChromeOS
Color	White
Power	DC5V/2A

1.2 Product Feature

- **Ethernet:**
 - 10/100/1000 Mbps Ethernet port
- **WiFi/Bluetooth:**
 - IEEE 802.11ac 2.4GHz/5GHz 2T2R
 - Bluetooth
- **Full HD Output:**
 - HDMI 1.4a Output
 - 3840 x 2160P@30fps video, audio output
 - 1920 x 1080P@60fps video, audio output
 - 1280 x 720P@60fps video, audio output
 - 1280 x 960P@85fps, video, audio output
 - 1024 x 768@70fps, video, audio output
- **EZCast App Support**
 - Support Windows/macOS/iOS/Android
 - Extension and Mirror with audio transmission for Windows/macOS
 - Video, Music and Photo streaming and playback
 - Live camera projection
 - Access and stream data from cloud storage
 - Support EZChannel, Auto Play and Cloud Control
 - Support Internet Wallpaper

- **OTA Firmware Upgrade**
- **Operating System Support:**
 - Windows 7/8/10 and above
 - Mac 10.10 and above
 - Chrome OS
 - iOS 10.0 and above
 - Android 4.4 and above
- **Support iOS/macOS Mirroring (EZAir)**
- **Support Miracast with HDCP**
- **Support DLNA Protocol (DMR)**
- **Support Google Home Mirroring**
- **Support Youtube TV**
- **Voice Control**
 - Amazon Alexa Control
 - Google Assistant Control
 - AliGenie smart speaker (天貓精靈)
 - Mi AI speaker (小愛同學)

1.3 Installation



- Mini Box to power: Connect the DC port to power (DC 5V/2A)
- Mini Box to TV: Connect to the HDMI port of your TV/Projector/Monitor
- Connect to network: Connect to network wirelessly or via LAN port

2.0 Requirements

The following sections identify the detailed requirements of the EZCast Mini Box.

2.1 Hardware Specification

2.1.1 Main Component

	Hardware Component	Detailed Description
2.1.1.1	CPU	• AM8270
2.1.1.2	SDRAM	• 256 MB DDR3
2.1.1.3	Flash	• 128 MB

2.1.2 Hardware Interface

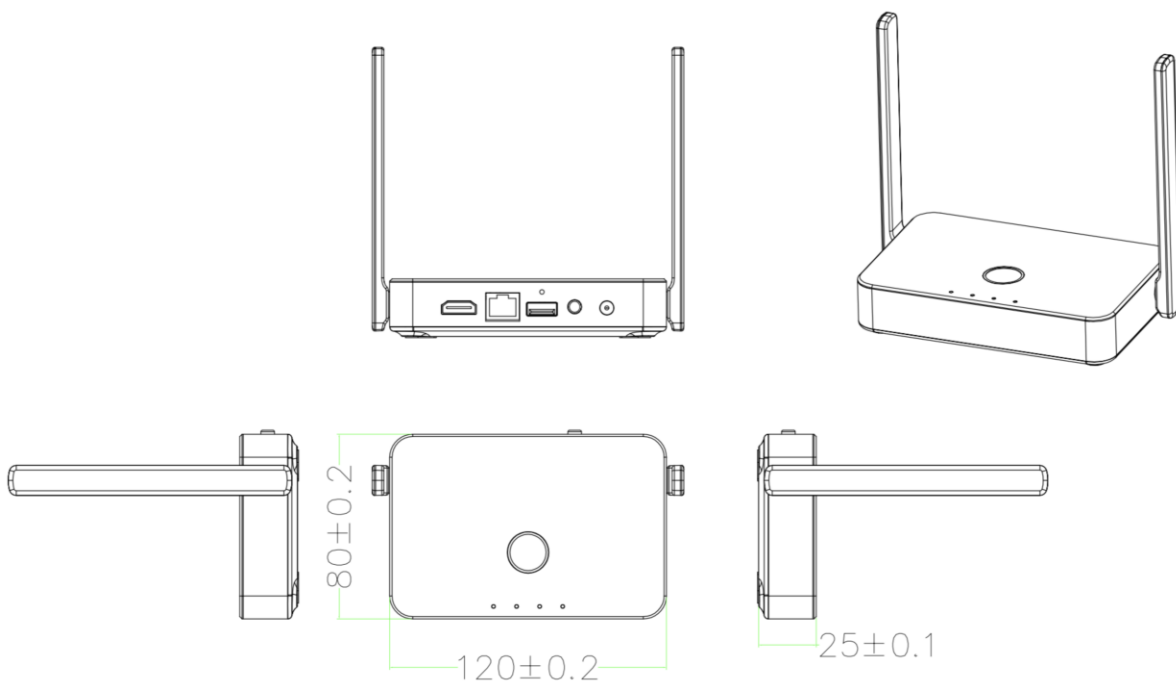
	Feature	Detailed Description
2.1.2.1	Ethernet Interface	• 10/100/1000 Mbps Ethernet port
2.1.2.2	HDMI Interface	• HDMI 1.4a with HDCP 2.0
2.1.2.3	USB Interface	• USB 2.0 Female
2.1.2.4	Reset Button	• 1 push button for reset the device to default

2.1.3 Electrical Characteristic

	Feature	Detailed Description
2.1.3.1	Power Input	• DC 5V/2A
2.1.3.2	Power Consumption	• 4.5W

2.2 Mechanical Requirements

2.2.1 Dimension



2.2.2 Package Specification

	Feature	Detailed Description
2.2.2.1	Length	• 184mm
2.2.2.2	Width	• 144mm
2.2.2.3	Height	• 50mm
2.2.2.4	Weight	• 564 g

2.3 Environmental Requirements

	Feature	Detailed Description
2.3.1	Operating Temperature Conditions	• The product is capable of continuous reliable operation when operating in ambient temperature of 0 °C to +40°C.
2.3.2	Non-Operating Temperature Conditions	• Neither subassemblies is damaged nor the operational performance be degraded when restored to the operating temperature after exposing to storage temperature in the range of -20 °C to +70 °C.
2.3.3	Operating Humidity conditions	• The product is capable of continuous reliable operation when subjected to relative humidity in the range of 10% and 90% non-condensing.
2.3.4	Non-Operating Humidity Conditions	• The product is not be damaged nor the performance be degraded after exposure to relative humidity ranging from 5% to 90% non-condensing.

2.4 Certification Requirements

	Feature	Detailed Description
2.4.1	EMC/Safety	• CE, FCC, NCC
2.4.2	Other	• ROHS

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