



Wireless Display Transmitter & Receiver

Model Name: EZCast Pocket BC-2
Transmitter BC-2 + Receiver R-1



Version 0.01

10/27/2023

Revision History

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Rev	Date	Reason for Changes
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1.0 Introduction

1.1 Brief

This document provides an overview of the requirements for the EZCast Pocket. EZCast Pocket is a pair of Full HD wireless display transmitter & receiver. It integrates powerful video encoder/decoder and 2.4Ghz/ 5Ghz Wi-Fi module with high sensitivity antennas to provide the high-performance screen mirroring function.

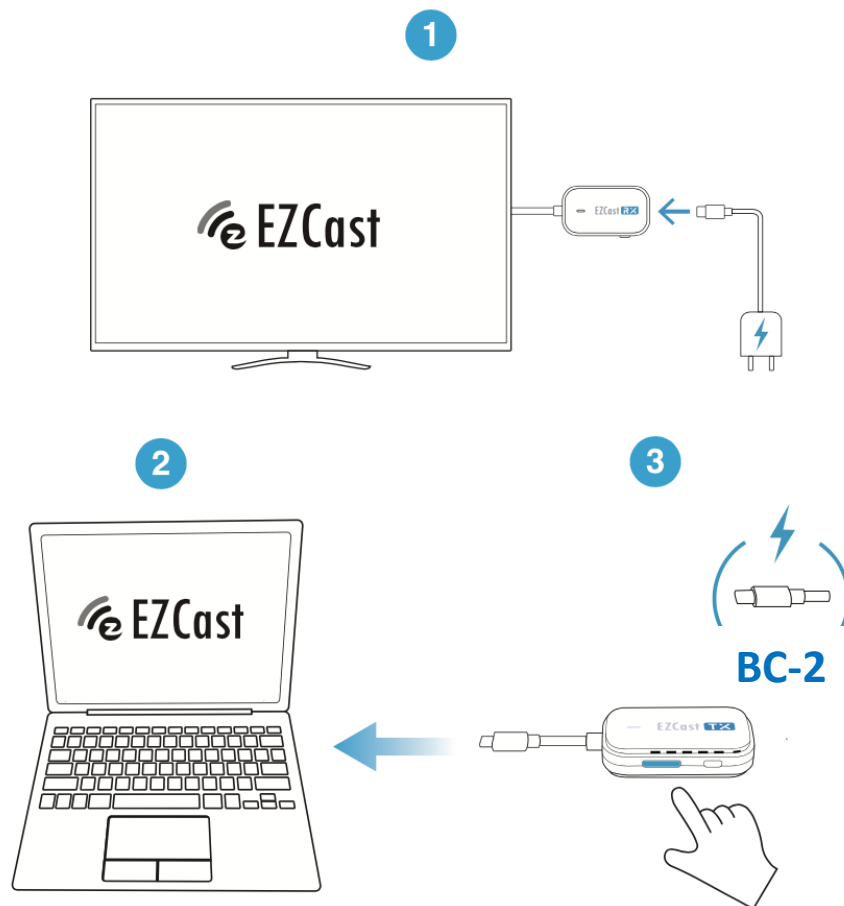
Transmitter	
Main Chip	AM8360D
Model	Pocket BC-2
Network	IEEE 802.11n 5GHz 1T1R
Display Interface	Type-C with DP-Alt
Power Interface	USB-C PD (Up to 60Watt)
Max. Resolution	1920x1080/60p
Function	Screen Mirror/Extend
Color	White
Power	DC5V/1A

Receiver	
Model	Pocket R-1
Main Chip	AM8268D
Network	IEEE 802.11n 5GHz 1T1R
Display Interface	HDMI
Power Interface	DC5V/1A
Max. Resolution	1920x1080/60p
Function	Screen Mirror/Extend
Color	White
Power	DC5V/1A

1.2 Product Feature

- **Wi-Fi:**
 - IEEE 802.11n 5GHz 1T1R
- **Full HD Output**
- **Screen Mirror**
- **Screen Extend (Windows/macOS)**
- **Support Nintendo Switch 1 & 2**
- **Android Desktop Mode (like Samsung Dex or Huawei Easy Projection etc.)**
- **DRM (Netflix, Disney+, etc.) supported through USB-C with DP-Alt**
- **EZCast Proprietary Protocol**
- **Landscape/ Portrait mode switch**
- **Type-C with DP-Alt is required for System or Smart Phone**
- **Fast charging the battery of Notebook/ Tablet/ Smart Phone that supports USB-C Power Delivery via Pocket BC-2.**

1.3 Installation



1. EZCast Pocket Receiver R-1 (Receiver): Connect EZCast Pocket Receiver R-1 to your TV and power on by an independent 5V/1A adapter.
2. EZCast Pocket Transmitter BC-2 (Transmitter): Connect the Type-C connector to your mobile device/Laptop/MacBook supporting the Type-C DP-Alt. Wait a few seconds until the flashing light of EZCast Pocket Transmitter BC-2 stops, then it will start mirroring automatically. For mobile device/Laptop/MacBook supporting USB-C PD up to 60watt, please use the certificated or genuine parts of USB-C PD power adapter to connect the rear USB-C port of the BC-2 for applying the fast charging.
3. Stop/Restart Mirror: Press the pair button on EZCast Pocket Transmitter C- to stop mirroring or restart mirroring.

1.4 Manually Pair (If needed)

1. Turn on pairing mode for the receiver

- (1) Power up the receiver by an external adapter (5V/1A).
- (2) Plug the receiver to the HDMI port on the monitor.
- (3) Press the button on the receiver for 5 seconds.

Release when the screen shows “Release the button to pair with EZCast”.



2. Press the button on Transmitter BC-2

Plug Transmitter BC-2 on laptop or mobile to provide power. Press the button on Transmitter BC-2 for 5 seconds to complete pairing while the screen shows “Ready to pair”. After paired, it will start casting automatically.



2.0 Requirements

The following sections is to identify the detailed requirements of the EZCast Pocket BC-2 and EZCast Pocket Receiver H-1.

2.1 Hardware Specification

2.1.1 Main Component

EZCast Pocket Transmitter BC-2	Hardware Component	Detailed Description
2.1.1.1	Main Chip	<ul style="list-style-type: none">• AM8360D
2.1.1.2	Wi-Fi	<ul style="list-style-type: none">• AM9421
2.1.1.3	Flash	<ul style="list-style-type: none">• SNOR 8 MB
EZCast Pocket Receiver R-1		
2.1.1.4	Main Chip	<ul style="list-style-type: none">• AM8268D
2.1.1.5	Wi-Fi	<ul style="list-style-type: none">• AM9421
2.1.1.6	Flash	<ul style="list-style-type: none">• SNOR 8 MB

2.1.2 Hardware Interface

EZCast Pocket Transmitter BC-2	Feature	Detailed Description
2.1.2.1	Display Interface	<ul style="list-style-type: none"> Display Input Type C with DP-Alt
2.1.2.2	Power Interface	<ul style="list-style-type: none"> USB-C PD (Up to 60Watt) Note: USB-C PD Power Adapter is required
2.1.2.3	Pair Button	<ul style="list-style-type: none"> Press the button to switch casting on/off as the display signal is transmitting. (Need EZCast RX connected) Press 5s to start the EZCast RX pairing
2.1.2.4	Reset Button	<ul style="list-style-type: none"> Press 5s for reset the device to factory default
EZCast Pocket Receiver R-1		
2.1.2.4	HDMI Interface	<ul style="list-style-type: none"> HDMI 1.4a with HDCP 1.4
2.1.2.5	Power Interface	<ul style="list-style-type: none"> USB-C, 5V/1A USB adapter
2.1.2.6	Button	<ul style="list-style-type: none"> Press 5s to start the pairing process

2.1.3 LED Indicator for

EZCast Pocket Transmitter BC-2	Status	Detailed Description
White LED Color	Solid White	<ul style="list-style-type: none"> Device is connected to RX successfully and is able to be operated properly.
	Blinking (Slow)	<ul style="list-style-type: none"> The device is ready and trying to connect to RX as EZCast Receiver is being connected up.
	Blinking (Fast)	<ul style="list-style-type: none"> The device is processing to pair with RX.
	Light off	<ul style="list-style-type: none"> The device has malfunctioned, OR no power input.
EZCast Pocket Receiver R-1		
White LED Color	Solid White	<ul style="list-style-type: none"> Device is connected to 5V/1A power successfully.

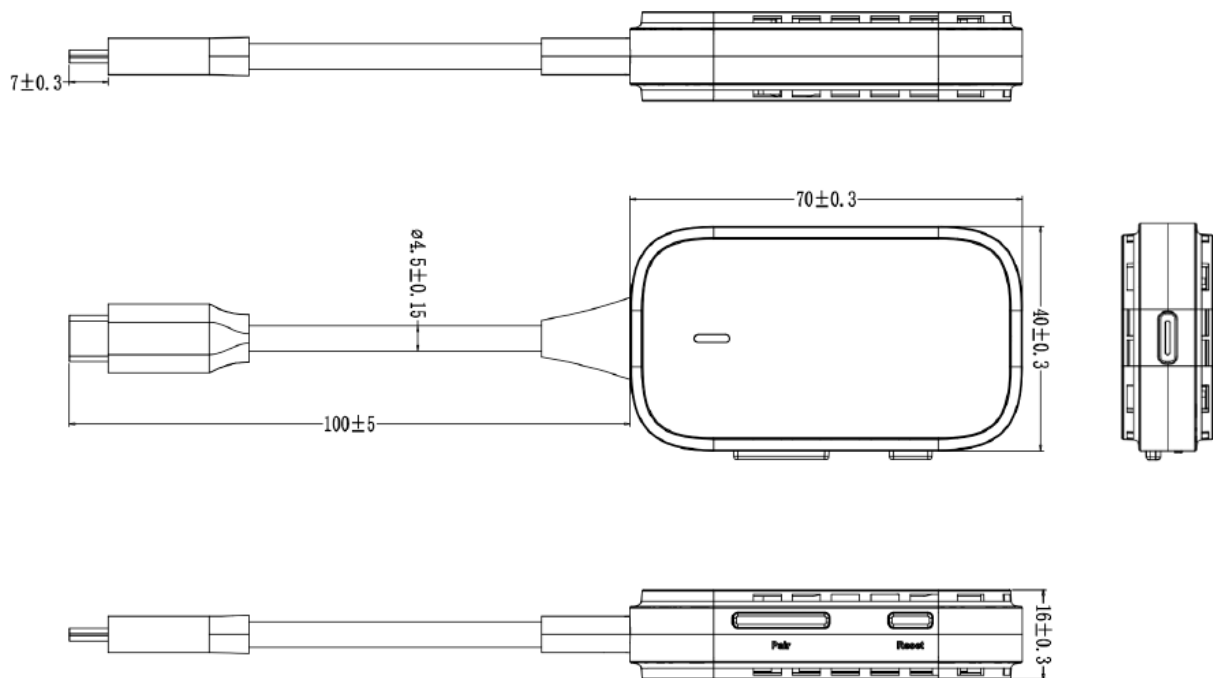
2.1.4 Electrical Characteristic

EZCast Pocket Transmitter BC-2	Feature	Detailed Description
2.1.4.1	Power Input for PD	<ul style="list-style-type: none"> • USB-C PD 60Watt ((Min. 5V3A) Note: USB-C PD Power Adapter & Cable is required for fast charging
2.1.4.2	Power Consumption	<ul style="list-style-type: none"> • 3W (For self-power only)
EZCast Pocket Receiver R-1		
2.1.4.3	Power Input	<ul style="list-style-type: none"> • DC 5V/1A
2.1.4.4	Power Consumption	<ul style="list-style-type: none"> • 3W

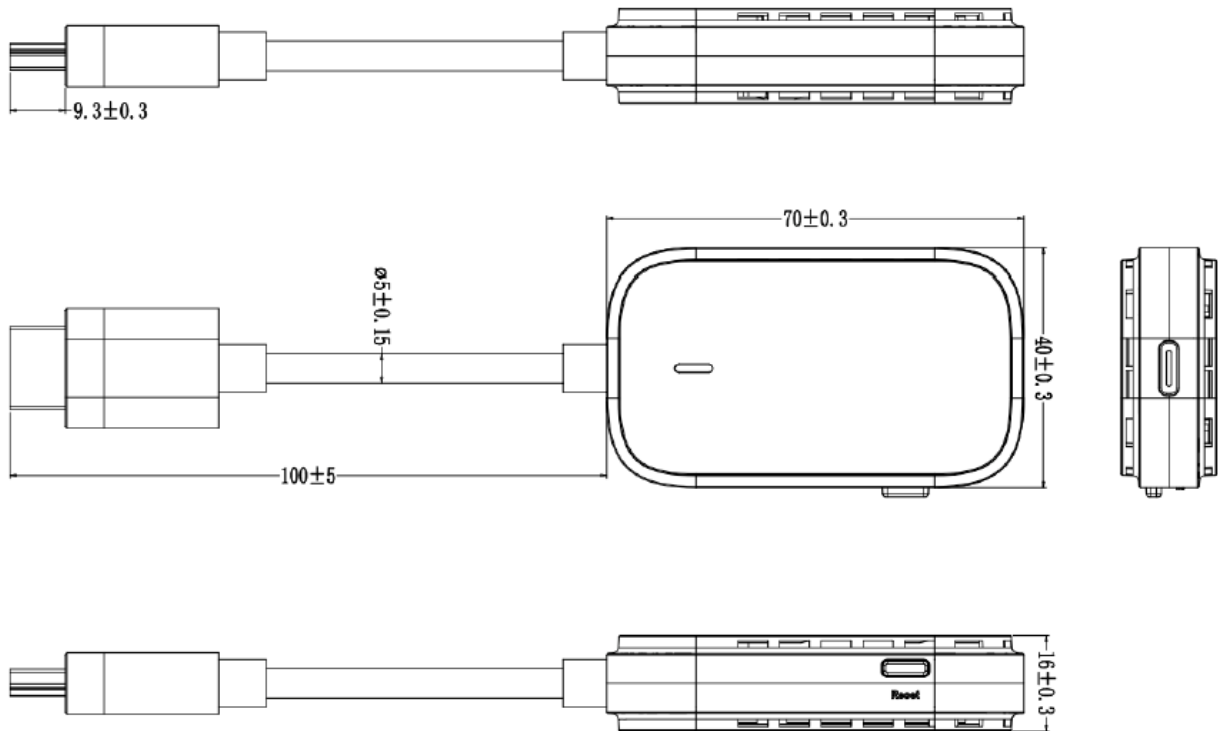
2.2 Mechanical Requirements

2.2.1 Dimension

2.2.1.1 Pocket Transmitter BC-2



2.2.1.2 Pocket Receiver R-1



2.2.2 Package Specification

EZCast Pocket BC-2	Feature	Detailed Description
2.2.2.1	Length	• 170mm
2.2.2.2	Width	• 40mm
2.2.2.3	Height	• 16mm
2.2.2.4	Weight	• 45.3g
EZCast Pocket R-1		
2.2.2.5	Length	• 170mm
2.2.2.6	Width	• 40mm
2.2.2.7	Height	• 16mm
2.2.2.8	Weight	• 43g

2.3 Environmental Requirements

	Feature	Detailed Description
2.3.1	Operating Temperature Conditions	<ul style="list-style-type: none"> The product is capable of continuous reliable operation when operating in ambient temperature of 0 °C to +35°C.
2.3.2	Non-Operating Temperature Conditions	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> CE, FCC, NCC, TELEC(5G band (W52) indoor use), UKCA
2.4.2	Other	<ul style="list-style-type: none"> ROHS, REACH, WEEE

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