

Wireless Display Transmitter & Receiver

Model Name: WD9905



Revision History

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Rev	Date	Reason for Changes
1.00	2022/10/05	• 1 st first release
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试用水印

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1.0 Introduction

1.1 Brief

This document provides an overview of the requirements for the WD9905 . It 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	WD9905 TX
Network	WIFI 5GHz 1T1R
Interface	HDMI
Max. Resolution	1920x1080/60p
Function	Screen Mirror/Extend
Color	White
Power	DC5V/1A

Receiver	
Model	WD9905 RX
Main Chip	AM8268D
Network	WIFI 5GHz 1T1R
Display Output	HDMI 1920x1080/60p, 1280x720/60p
Function	Screen Mirror/Extend
Color	White
Power	DC5V/1A

1.2 Product Feature

- **Wi-Fi:**
 - 5GHz 1T1R
- **Full HD Output**
- **Screen Mirror**
- **Screen Extend (Windows/macOS)**
- **Netflix App support**
- **EDUP Proprietary Protocol**

2.1 Hardware Specification

2.1.1 Main Component

WD9905 TX	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">• RTL8731BU
2.1.1.3	Flash	<ul style="list-style-type: none">• SNOR 8 MB
WD9905 RX		
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">• RTL8731BU
2.1.1.6	Flash	<ul style="list-style-type: none">• SNOR 8 MB

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2.1.2 Hardware Interface

WD9905 TX	Feature	Detailed Description
2.1.2.1	Interface	<ul style="list-style-type: none"> Type C Power Input HDMI Display Input
2.1.2.2	Pair Button	<ul style="list-style-type: none"> Press the button to switch casting on/off as the display signal is transmitting. (Need WD9905 RX connected) Press 5s to start the WD9905 RX pairing
2.1.2.3	Reset Button	<ul style="list-style-type: none"> Press 5s for reset the device to factory default
WD9905 RX		
2.1.2.3	HDMI Interface	<ul style="list-style-type: none"> HDMI 1.4a with HDCP 1.4
2.1.2.4	USB Interface	<ul style="list-style-type: none"> Only for power input (5V/1A USB adapter)
2.1.2.5	Button	<ul style="list-style-type: none"> Press 5s to start the WD9905 TX pairing process Press 20s to reset default

2.1.3 LED Indicator for

TX	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 WD9905 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.
RX		
White LED Color	Solid White	<ul style="list-style-type: none"> Device is connected to 5V/1A power successfully.

2.1.4 Electrical Characteristic

TX	Feature	Detailed Description
2.1.4.1	Power Input	<ul style="list-style-type: none"> 5V/1A
2.1.4.2	Power Consumption	<ul style="list-style-type: none"> 3W
RX		
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