

Wireless Display Transmitter & Receiver

Model Name: WD9905C



Revision History

Rev	Date	Reason for Changes
1.00	2023/12/05	• 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 WD9905C. WD9905C is a pair of Full HD wireless display transmitter & receiver. It integrates powerful video encoder/decoder and 5Ghz Wi-Fi module with high sensitivity antennas to provide the high-performance screen mirroring function.

Transmitter	
Main Chip	AM8360D
Model	WD9905C TX
Network	WIFI 5GHz 1T1R
Interface	USB Type-C DP-ALT
Max. Resolution	1920x1080
Function	Screen Mirror/Extend
Color	White
Power	DC5V/0.5A

Receiver	
Model	WD9905C RX
Main Chip	AM8268D
Network	WIFI 5GHz 1T1R
Display Output	HDMI 1920x1080, 1280x720
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

WD9905C 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">• AM9421
2.1.1.3	Flash	<ul style="list-style-type: none">• SNOR 8 MB
WD9905C 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

WD9905C TX	Feature	Detailed Description
2.1.2.1	Type-C Interface	<ul style="list-style-type: none"> Display Input Type C with DP-Alt
2.1.2.2	Button (Pin hole)	<ul style="list-style-type: none"> TX pairing process Press 20s to reset default
WD9905C 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 (Pin hole)	<ul style="list-style-type: none"> Press 5s to for pairing as the display device shows "Ready to pair" process

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 WD9905C 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/0.5A
2.1.4.2	Power Consumption	<ul style="list-style-type: none"> 1.5W
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