

Whdi wireless transmitter module

Use manual

JDHMDZ-D1AT\ JDHMDZ-D1AR

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1 Overview

1.1 The preface

This specification is applied to the products as follows:

Whdi wireless transmitter module: TX (JDHMDZ-D1AT) AND RX (JDHMDZ-D1AR)

Warning(1): 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.

FCC ID: Y48JDHMDZ-D1AT
Model: JDHMDZ-D1AT
Rating: 5V = 3A

FCC ID: Y48JDHMDZ-D1AR
Model: JDHMDZ-D1AR
Rating: 5V = 3A

Warning(2): changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warning(3): FCC Radiation Exposure Statement:

This equipment complies 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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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1.2 Product application:

The Whid wireless transmitter module is normally used for family, department store and kinds of entertainment halls, can realize wireless connection of Home HD display equipment, and can expand the HD connection function form PC, Laptop and portable computing equipment into the radio television.

2 Technical Characteristic

Type & Specification	TRANSMITTER(JDHMDZ-D1AT)	RECEIVER(JDHMDZ-D1AR)
Frequency Range	5.725GHz -- 5.825GHz	5.725GHz – 5.825GHz
Operation channel	5.755GHz, 5.795 GHz	5.755GHz, 5.795 GHz
Antennas (internal PCB antenna)	Downlink x4; Uplink x1	Uplink x1; Downlink x5
The gain of Antenna	Internal PIFA Ant: 1.5dBi	Internal PIFA Ant: 1.5dBi
RF Output Power	15dBm (Typ)	15dBm (Typ)
Bandwidth	Downlink 40MHz	Uplink 40MHz
Sensitivity		-67dBm (Typ)
Modulation	OFDM	
Resolution	1080P、1080i、720p、720i、576p、480p	
IR Format		
System Interfaces	<ul style="list-style-type: none"> ◇HDMI Jack x1 ◇IR Blaster Jack x1 ◇Power Jack x1 ◇USB 2.0 x1 	<ul style="list-style-type: none"> ◇HDMI Jack x1 ◇Power Jack x1 ◇USB 2.0 x1
Input Voltage	DC5V/3A	
Maximum Power	<9W	
Working temperature	-10℃ ~ 55℃	
Working humidity	10% ~ 85%	

3 Operating principle

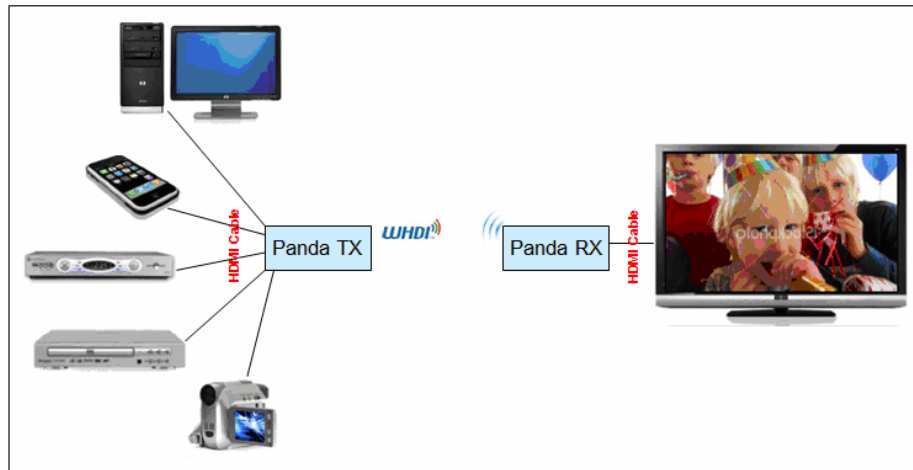


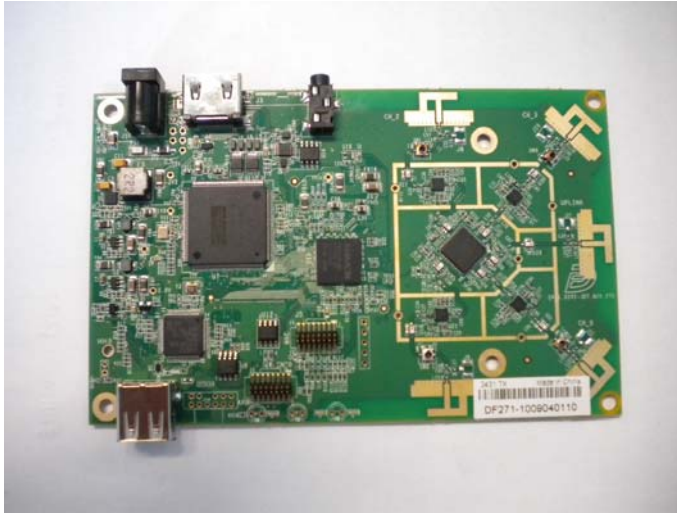
Fig.1 The principle block diagram of the whdi wireless transmitter module

Whdi wireless transmitter module has two parts of transmitter and receiver, as we can see in figure 1

the output HDMI signals from the DVD, DVB, PC connect to the whdi wireless transmitter (transmit part), then send out the signals via the transmitting antenna, while the other whdi wireless transmitter module (receive part) and process the signals to connect with the display via the HDMI Cable, so as to complete the wireless transmission of HD signals.

4 Structural feature

4.1 Whdi wireless transmitter module



JDHMDZ-D1AT (Transmitter)



JDHMDZ-D1AR (Receiver)

4.2 The design for the interfaces

- a) DC5V power adapter interface
- b) High-definition multimedia digital interface (HDMI)
- c) 3.5mm IR(Infrared radiation) Blaster interface
- d) 5V Power supply LED
- e) Video LED
- f) Link LED.