

Product name: Wireless HDMI Receiver/TV Adaptor

Model Name: HB557/HSTNN-QR02

Brand Name: Quanta Microsystems, Inc/Hewlett-Packard

Company

Description

The HM517 is a WHDI wireless A/V receiver; it works together with HM516 WHDI wireless A/V transmitter to deliver A/V streams wirelessly. The highest resolution for video stream is 1080p/60Hz and the audio stream bandwidth can support up to 8 PCM audio channels.

Features

- 5 receive antennas while 1 time multiplex with transmit
- Transmission Range – 5 to 10 meters
- Video – up to 1080p/60Hz
- Audio – One I2S channel and one SPDIF channel with 48kHz
- 4.9 – 5.9GHz unlicensed band
- RGB/YCbCr color space with 10-bit color
- Video Formats
 - 480i, 480p, 576i, 576p, 720p, 1080i, 1080p
 - VGA (640x480)
 - SVGA (800x600)
 - XGA (1024x768)
 - SXGA (1280x1024)
 - UXGA (1600x1200)
 - 854x800, 1280x768, 1366x768
- Audio Formats
 - 8 PCM streams (48kHz x 24 bit)
 - S/PDIF DTS, Dolby TrueHD, Dolby Digital Plus, AC-3 (5.1 channel)
- HDCP 1.0

Specification

Interface	Digital video: 30-bit RGB or YCrCb Digital audio: I2S and SPDIF Two-Wire serial bus slave interface One interrupt line
Network Standard	5GHz unlicensed band
Modulation	OFDM/ OOK
Technique	Proprietary
Operating Frequency	5.15GHz to 5.850GHz
Transfer data rate	60Kbps
TX Duty Cycle	5%
RF Power	1T5R ; 12 +/- 1dBm
Operating Channels	5190MHz / 5230MHz / 5755MHz / 5795 MHz / 5835 MHz
Antenna	With PCB integrated antennas.
Antenna Connector	N/A
Antenna Gain(Max.)	4.0dbi@5190MHz; 3.4dbi@5310MHz; 3.5dbi@5550MHz; 3.6dbi@5835MHz
Operating Channels	5190MHz / 5230MHz / 5755MHz / 5795 MHz / 5835 MHz
Supply Voltage	5.25V~4.75V
Power Consumption	5.5w typically

I/O Definition

Connector	Description	Remark
Tact Switch (1)	For firmware upgrade. Act with USB connector and Tact Switch (2)	
Mini USB	For firmware upgrade. Act with Tact Switch (1) and Tact Switch (2)	
HDMI connector	HDMI Receptacle connector. To output HDMI signals to display devices	
DC Power Jack	To receive 5V power supply from power source	
Tact Switch (2)	For firmware upgrade. Act with USB connector and Tact Switch (1)	

Function Block Diagram

