

Product name: Wireless HDMI transmitter/PC Adaptor

Model Name: HB556/HSTNN-QR01

Brand Name: Quanta Microsystems, Inc/Hewlett-Packard

Company

Description

The HM516 is a WHDI wireless A/V transmitter; it works together with HM517 WHDI wireless A/V receiver 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

- 2 transmit and 1 receive antenna
- 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/ 16QAM
Technique	Proprietary
Operating Frequency	5.15GHz to 5.850GHz
Transfer data rate	63Mbps
TX Duty Cycle	95%
RF Power	2T1R ; 9 +/- 0.4 dBm each path; total 12 dBm max.
Operating Channels	5190MHz / 5230MHz / 5755MHz / 5795 MHz / 5835 MHz
Antenna	With PCB integrated antennas.
Antenna Connector	N/A
Antenna Gain(Max.)	4.7dbi@5190MHz; 4.7dbi@5310MHz; 5.0dbi@5550MHz; 5.8dbi@5835MHz
Supply Voltage	5.25V~4.75V
Power Consumption	5 w typically

I/O Definition

Connector	Description	Remark
Tact Switch (1)	For firmware upgrade. Act with USB connector	
Mini USB	To receive 5V power supply from power source For firmware upgrade. Act with Tact Switch (1)	
HDMI connector	HDMI Receptacle connector. To input HDMI signals from generator	

Function Block Diagram

