

TA-530wa MPEG2 Wireless/HomePlug A/V Transport Reference Design

Watch Television or Movies without any Cables

Description

The TA-530wa MPEG2 Wireless/HomePlug A/V transport reference design, offers the freedom to watch TV anywhere regardless where the cable box, PVR and DVD player are. The reference design includes a wireless/HomePlug A/V transmitter and receiver. The transmitter delivers audio and video using WLAN, LAN or power line in MPEG2 Transport Stream format to the wireless/HomePlug A/V receiver. The receiver decodes the data sent from the transmitter and then delivers the audio and video to the television. Unlike solutions based on analog signals, the TA-530wa uses digital signals which guarantee video and audio quality.

Multiple A/V sources such as Cable TV, Personal Video Recorder (PVR), and DVD Player can all be connected to the TA-530wa transmitter. The same program can also be viewed using computers on the network with software that is capable of decoding MPEG2 TS data from the network. On a television equipped with the wireless receiver, programs from other sources such as digital TV from wireless Digital TV tuner.

Based on the TF-530 Wireless Digital TV Streaming Controller, the TA-530wa provides flexibility in selecting wireless technologies and vendors. This allows companies who are not familiar with wireless technology to use off-the-shelf WLAN cards, and therefore reduces the development effort. The TA-530wa also takes advantage of other features offered by the TF-530 such as hardware based TS to 802.11 and 802.3 format conversion, TS rate control and TCP/IP protocol acceleration. The MII interface of TF-530 can be connected with HomePlug chipset. To take the advantage of HomePlug technology, TF-530 can deliver audio and video to power line.

The TA-530wa contains wireless transmitter and receiver demo boards, schematics, Gerber file, TF-530 datasheet, documentation, library and source code.

Benefits

- ✧ Complete hardware platform for wireless A/V transmitter and receiver
- ✧ Watch television and movies without any cables
- ✧ Watch programs sent by the transmitter or wireless Digital TV tuner
- ✧ Digital wireless transmission ensures video and audio quality
- ✧ Supports multicast over PowerLine

Block Diagrams



