



NXP single-channel hybrid DVB-T reference design PCV220

Bringing vibrant PC TV technology to mass market

Get to market fast with a low-cost solution for single-channel, hybrid DVB-T reception and give consumers the sensory experience of TV on their notebook or desktop computers. With our robust and proven, complete reference design; you can quickly develop future-proof PC TV solutions that maximize consumers' reception footprint and help drive the transition to digital broadcasting.

Key features

- ▶ Complete reference design for low-cost, single-channel hybrid PC TV cards
 - All necessary hardware in either PCIe or ExpressCard/34 format
 - Complete software driver set
 - Full documentation including application notes and schematics
- ▶ Analog cable/terrestrial and digital terrestrial (DVB-T) reception
- ▶ Microsoft MCE and Vista compliant drivers
- ▶ Software drivers compatible with Microsoft BDA (Broadcast Driver Architecture)
- ▶ Supports third party applications
- ▶ Supports Linux
- ▶ Can be extended to support dual hardware MPEG encoder on board

- ▶ Can be extended to support a variety of analog and digital (DVB-C, DVB-S, ATSC) broadcast technologies
- ▶ Able to meet Nordig and ISF specifications (and Cenelec for desktop version)

Key benefits

- ▶ Fast time-to-market
- ▶ Reduced manufacturing costs
- ▶ Robust, field-tested solution increases chances of successful product introduction
- ▶ Hybrid reception
 - Future proof
 - Reduced returns during broadcaster transitions
 - Maximum reception footprint

Hybrid TV solutions are a vibrant part of the transition to digital TV broadcasting as they reduce consumer acceptance barriers. With our extensive range of complete reference designs, you have an excellent, fast, low-risk route to market for a host of exciting hybrid PC TV cards that will meet any consumer budget. Our PCV220 single-channel hybrid DVB-T reference design is the perfect basis for entry-level solutions for desktop and laptop systems. Available as a PCI Express card for desktops or in an ExpressCard/34 format for notebooks, it lets you offer consumers a low-cost solution for enjoying TV-on-PC functionality today without needing to upgrade when analog broadcasts cease.

At the heart of the reference design, you'll find our PCI Express bridge SAA7160 and single-channel audio/video decoder SAA7136E with on-chip IF demodulator. It also features our DVB-T channel decoder TDA10046A and silicon tuner TDA8275A for analog cable/terrestrial and DVB-T reception.

For the lowest possible time-to-market and launch risk, the PCV220 also includes all necessary auxiliary hardware plus a complete software driver set. The solution runs under Linux as well as Windows XP/MCE/Vista.

