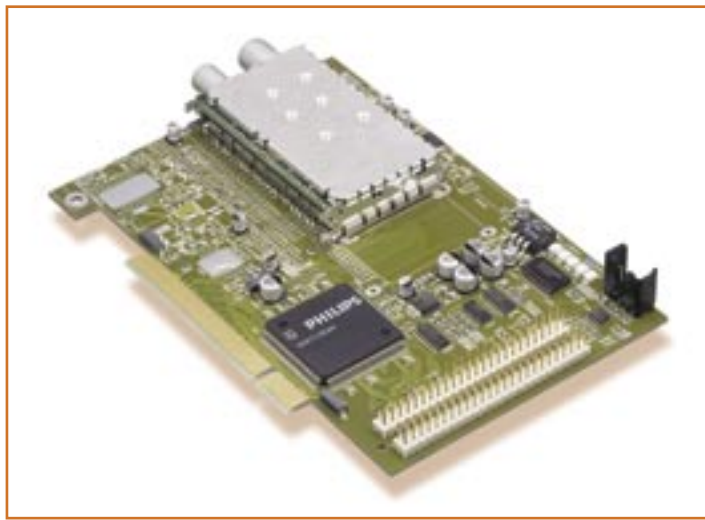


PC DVB-C reference design board “Crete”

Further extending Philips Semiconductors’ innovative and comprehensive portfolio of digital and analog TV solutions for multimedia PCs, the DVB-C reference board “Crete” delivers flexible, cost-effective development of PCI-based digital cable receivers. Built around the industry-leading SAA7146A PCI media streaming engine, this comprehensive reference design enables rapid prototyping of multimedia drivers, application software and system solutions for ultra-fast time-to-market.



Key features

- SAA7146A PCI multimedia streaming engine
 - multiple DMA channels
 - bi-directional A/V capture and playback
 - dual high performance video scalers
- CU1216 multimedia tuner
 - DVB-C compliant
 - small footprint
- Support for optional conditional access
- Supports third party application software

Key applications

- Digital TV (DTV) and analog TV for PC and set top boxes
- PC-based multimedia systems
- Digital cable receivers
- Video editing / conferencing

Semiconductors

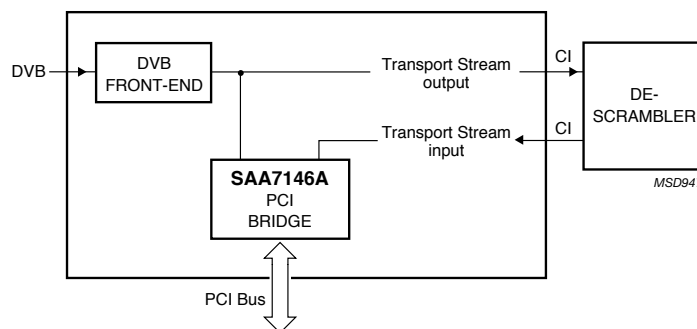
Fast prototyping of PCI-based digital cable receivers

The ideal time-to-market tool for developing PC-based DVB-C system solutions, Philips’ DVB-C reference design board maximizes system flexibility while dramatically reducing implementation costs. The DVB-C reference board serves as the ideal platform for architectures using software-based DVB-C transport stream demultiplexing and MPEG-2* decoding by the host CPU. Complementing the highly successful DVB-S “Sylt” and DVB-T “Tenerife” reference designs, the addition of the DVB-C reference design allows PC-TV designers to develop a wide portfolio of applications for any type of DVB broadcast.

Hardware

At its heart lies Philips’ SAA7146A PCI multimedia streaming engine, which provides a host of features for advanced digital tuning applications. The highly integrated SAA7146A IC is the industry standard for PCI-based multimedia upgrades. Enabling designers to extend functionality beyond the core DVB-C reception capability of the board (for example video conferencing, video editing, time-shifting and analog TV reception), it enables excellent software re-use potential.

The board’s other component is Philips’ CU1216 multimedia tuner, compliant with DVB-C systems. Additionally, connectors are provided for implementing conditional access with off-the-shelf common interface chips.



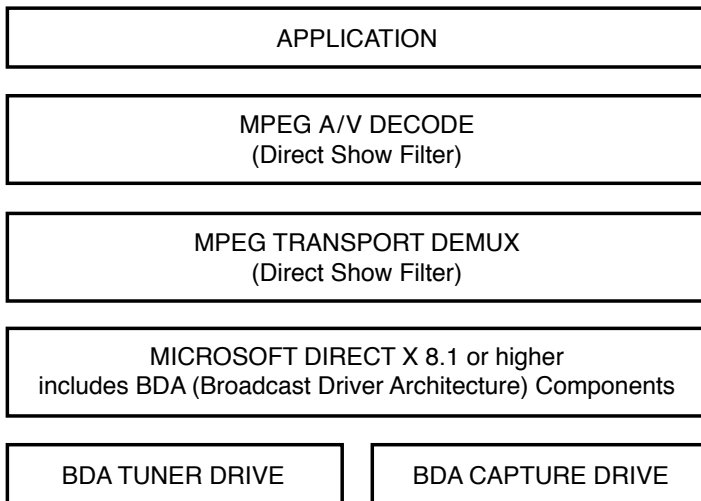
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PC DVB-C reference design board "Crete"



www.semiconductors.philips.com

"Crete" software architecture



MSD946

Operating software requirements

- Microsoft™ DX8.1 or higher including BDA (Microsoft™ TV) support
- Tuner and capture drivers are provided – updates are available
- MPEG demux component provided by Microsoft™ via DX installation
- MPEG decode component from Intervideo, Mediametrics or Cyberlink

* Use of this product in any manner that complies with the MPEG-2 Standard is expressly prohibited without a license under applicable patents in the MPEG-2 patent portfolio, which license is available from MPEG LA, L.L.C., 250 Steele Street, Suite 300, Denver, Colorado 80206.



Software

A complete solution, the DVB-C reference design is supplied with Microsoft BDA (Broadcast Driver Architecture) components, while also being compatible with third party software applications. Advanced applications based on the reference board drivers and BDA components are available from software vendors, with more under development. The full kit includes a Philips digital TV sample application.

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