Angel-LP Low Profile Internal Single Tuner MPEG Video Capture Device

Product Overview

Angel-LP is a Low Profile, single TV tuner PCI card solution with a hardware encoder and advanced picture quality enhancements for Windows XP Media Center Edition. The Angel-LP card features an MPEG2 encoder device which offers a video decoder with three-dimensional (3D) luminance/chrominance (Y/C) separation, 3D noise reduction, and an MPEG encoder in a single chip.

The card enables FM and TV tuner applications which are supported in Microsoft's Windows MCE, including watching a live program, recording a TV program to disk, and watching TV on a digital media extender device.

General Feature Set

• Single analog tuner (NTSC or PAL) configuration
• Hardware-based MPEG-1 and MPEG-2 Encoding
• Supports RAW audio and video capture
• Stereo audio decoding, with support for worldwide standards
• Video quality enhancements, including 3D Y/C separa and 3D noise reduction
• Full 10-bit D-1 capture in NTSC / PAL / SECAM
• DVD formatted recording
• PCI Low Profile form factor
• Supports raw and sliced VBI capture

I/O

• RF Video Input via a single "F" connector" or "IEC-female" connector.
• FM via a single "F" connector" or "IEC-female" connector.
• S-Video mini-DIN connector (baseband video). An adaptor can be used to bring a Composite Video signal into these ports.
• 3.5mm stereo mini-jack connectors (baseband audio)

Power

The unit is powered from the PCI bus and draws
• 3.3V at 600mA
• 5.0V at 900mA
• 12V at 60mA

Thermal

Operating Temperature: 0 to 55 degrees C ambient [5-85% relative humidity]

Dimension

6.7 inch x 2.25 inch

MPEG Encoder

• MPEG-1 or MPEG-2 format
• VBR from 2 Mbps to 15 Mbps for MPEG-2
• VBR from 64 Kbps to 5 Mbps for MPEG-1
• NTSC or PAL video formats
• Programmable 3-D filter
• Auto 3:2 pull down detection
• VBI extraction
• VCD, SVCD & DVD formats

Driver

The Encoder chip microcode is downloaded over the PCI bus so that the unit can be upgraded in the field. The driver works under Windows XP/MCE Symphony, Emerald and Vista.

The drivers are WDM compliant and can be integrated with a variety of 3rd party applications.

Tests and Certificates:

• FCC/CE/VCCI Class B
• Hardware reliability testing
• WHQL