DVP-7410
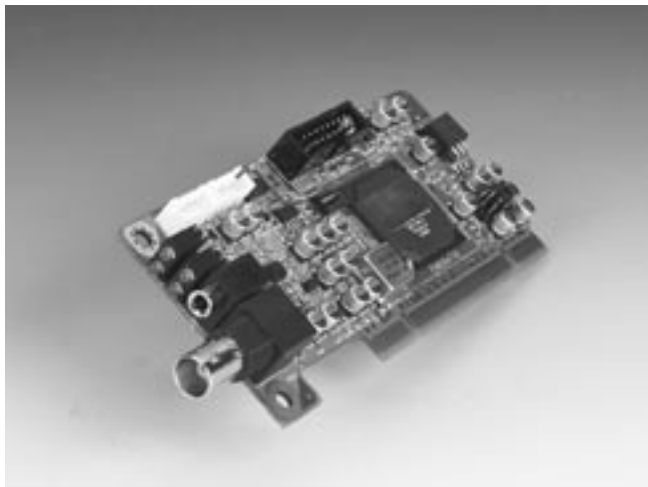
1 Channel MPEG-1/2/4 Decoder Card

Features

- Supports MPEG-1/2 and MPEG-4 (Microsoft MP4 and DivX) real-time hardware video decoder up to 1920 x 1080 resolution
- Supports MPEG-1 Layers 1, 2, 3 (MP3) and linear PCM audio decoding with sample rates of 32, 44.1, 48, 88.2,96, 176.4, or 192 kHz
- NTSC/PAL composite video output
- PCI 2.1 compliant/ 4 bit GPIO Function
- Supports Microsoft Windows® 2000/XP

CE FCC

Introduction

The DVP-7410 is a single-chip audio/video decoder that supports SVCD, VCD1.x, XCD 2.0, CD-DA, and CD-ROM media formats as well as the ISMA (Internet Streaming Media Alliance) streaming format. Video decoding support includes MPEG-1, MPEG-2, MP@ML, and MPEG-4 advanced simple profile (without GMC and QPEL). Audio decoding support includes 16-bit MPEG-1 Layers 1 and 2 (down mixed to stereo), and 16-bit linear PCM DVD support includes hardware CSS decryption, 16:9 and 4:3 aspect ratios, letterboxing, 3:2 pull-down, multiple angles, and sub-picture. The programmable video output display controller includes high quality arbitrary scaling and an OSD frame buffer with 16-levels of alpha blending. Output resolutions up to 1920 x 1080, interlaced or progressive, are supported with a refresh rate up to 120 Hz. Brightness, contrast, and color controls are provided to optimize the video display.

Specifications

Video

- **Output Connector**   1 BNC connector
- **Input Connector**   1 pin header
- **Video Standard**   Composite for NTSC/PAL
- **Resolution**   Up to D1
- **Video Decoding**   MPEG-1, MPEG-2, MPEG-4 (Supporting Microsoft/DivX/SigmaDesign format)
- **Image Processing**   Hardware video decoder
- **Data input Format**   MPEG-4 (Supporting Microsoft/DivX/ SigmaDesign format) MPEG-2 MPEG-1

Audio

- **Out Connectors**   1 audio phone jack
- **Audio Standard**   Supports MPEG-1 Layers 1 ,2 ,3 (MP3) and linear PCM audio decoding with sample rates of 32, 44.1, 48, 88.2, 96, 176.4, or 192 kHz

Host Communication

- **Image Processing**   PCI v2.1
- **Driver and SDK**   Supports Microsoft Windows® 2000/XP
- **Demo Program**   Complete demo program with C source code for reference

Hardware

- **Dimensions (W x L)**   119.91 x 63.627 mm
- **Power Consumption**   + 5/3.3 V DC input by PCI bus, max. 2000 mA
- **Temperature**   0 ~ 60° C (32 ~ 140° F; Operating) -20 ~ 70° C (-4 ~ 158° F; Non-Operating)
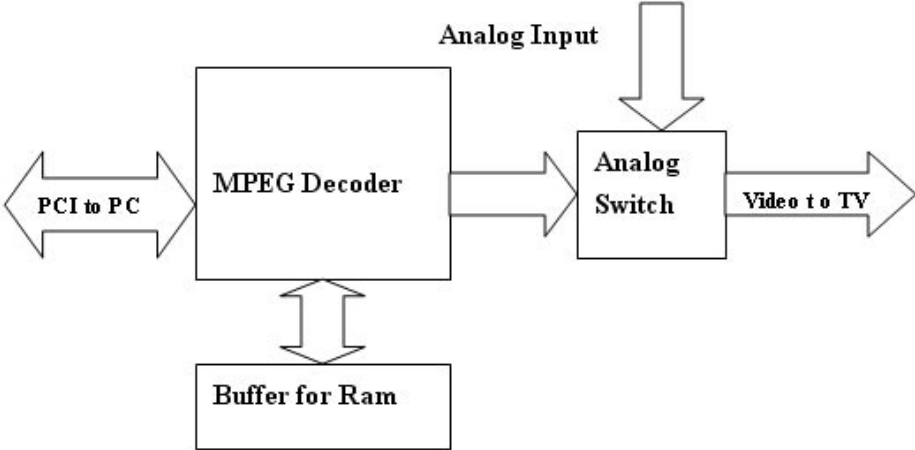
Ordering Information

- **DVP-7410**   1 channel MPEG-1/2/4 decoder card

Packing List

- **Startup manual**   X 1
- **Utility CD**   X 1

ADVANTECH

Block Diagram

Analog Input

| MPEG Decoder |

PCI to PC

| Analog Switch |

Video to TV

| Buffer for Ram |

Dimension Diagram

122 mm (4.80 in.)

3.18 mm (1.25 in.)

38.2 mm (15.0 in.)

3.18 mm

17.8 mm (7.0 in.)

CM9476

Unit: mm (inch)