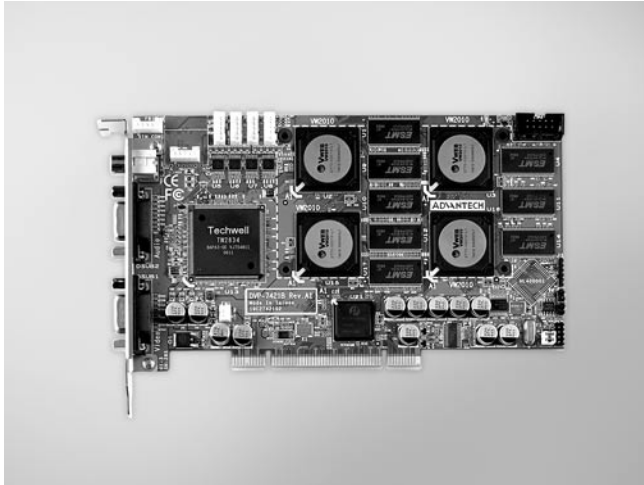


DVP-7421BE

4-ch Real-Time MPEG-1/2/4 Video Capture Card with SDK



RoHS
COMPLIANT
2002/95/EC

CE FCC

Features

- 4 channel composite inputs with MPEG-1/2/4 hardware compression
- Supports MPEG1 Layer II audio compression
- Able to interconnect 4 DVP-7421BE for up to 16 channels per PC
- 120/100 fps (NTSC/PAL) at D1 resolution for recording and display
- Excellent DVD level Audio/Video quality using VW2010 codec engine
- Support ADAM-4055 8DI/8DO Module
- SDK supports Windows® XP/XPe/Windows 2000 with VC++ sample codes

Introduction

The DVP-7421BE is a high-end video capture board with a hardware codec engine. It supports 4-channel live preview, video/audio compression and playback at D1 resolution and 120/100 fps. Up to four DVP-7421BE boards can be installed in one PC for concurrent live viewing, compression and playback of up to 16 channels at D1 resolution and 480 fps. The programmer can use the comprehensive SDK to load protection code or system parameters into the on-board 128 byte EEPROM. The SDK comes with sample code for reference. The hardware codec engine makes the DVP-7421BE the ideal platform for applications like network video servers, video conferencing, video training systems, and high-end digital video surveillance.

Specifications

Video

- **Video Standard** Composite for NTSC/PAL
- **Video Input** 4 channels
- **Resolution** Up to D1 (NTSC: 720 x 480; PAL: 720 x 576)
- **Max Recording Rate** 30/25 fps (NTSC/PAL) for each channel
- **Display Rate** 30/25 fps (NTSC/PAL) for each channel
- **Video Compression** MPEG-1/2/4
- **Video Output** PCI preview/playback stream
Analog video out from Smart Quad with composite connector
- **Video Loopout** 4 x BNC Connectors or 5-pin internal connector

Audio

- **Audio Input** 4 x stereo inputs (4 mono x BNC connectors or 2 x 5-pin internal connectors)
- **Audio Encoding** Supports MPEG1-Layer II

Software Development Kit

- **Operating System** Supports Microsoft Windows XP/XPe and Windows 2000
- **DirectX Required** Version 9 or above
- **Demo Program** Complete demo program with VC++ sample code for reference

Physical Characteristics

- **Host Interface** PCI V2.2
- **DI/O** Support ADAM-4055 8DI/8DO Module
- **Operating Temperature** -10 ~ 60° C (14 ~ 140° F)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Dimensions** 182.6 x 106.9 mm (7.2" x 4.2")

CPU Efficiency

With the MPEG4 hardware codec engine, the DVP-7421BE supports triple functions—for video encoding, decoding, and live preview. This frees up CPU computing power for other integrated functions. For an existing system, the DVP-7421BE is an ideal way to expand the video functions without a major hardware upgrade.

- Performance Test on Pentium IV 2.4 GHz
- Encoding/Decoding Setting per channel: D1(720x480), 30 FPS, MPEG4

1 x DVP-7421BE Card for 120 FPS D1

- **4 CH Encode Only** 0 ~ 5 %
- **4 CH Encode + Preview** 15 %
- **4 CH Encode + Preview + Decode** 15 ~ 20 %

4 x DVP-7421BE Card for 480 FPS D1

- **16 CH Encode Only** 10 %
- **16 CH Encode + Preview** 40 %
- **16 CH Encode + Preview + Decode** 40 ~ 50 %

Ordering Information

- **DVP-7421BE** 4-ch MPEG-1/2/4 Video Capture Card w/ SDK