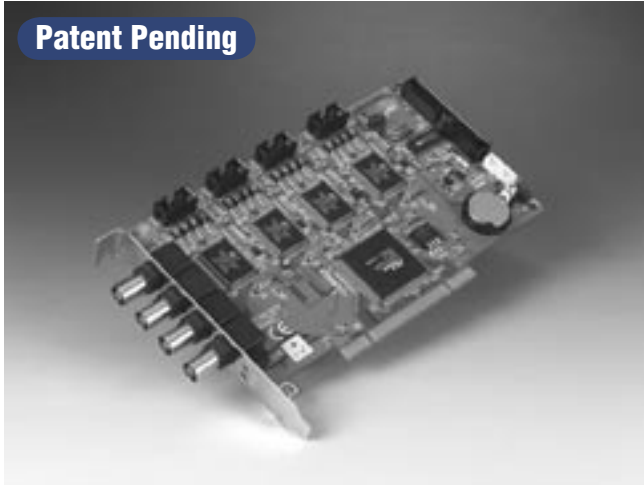


DVP-7020A

16 Channel PCI-bus Video Capture Card with WDT, GPIO

Patent Pending



CE FCC

Features

- Supports 16 channel composite inputs and captures up to D1 resolution at 30/25 fps frame rate
- CONEXANT Fusion 878A video decoder chip on board
- Built-in 128-byte user programmable EEPROM
- Up to 4 cards installed in one PC, setting by onboard DIP switch
- 32 bit TTL/CMOS level Digital I/O
- Watchdog timer for system fail over
- Automatic wake-up function with 10 pre-set times and 2 external trigger inputs. (DVP-7020AX)
- Programmable software protection key

Introduction

DVP-7020A is a 4 channel input PCI-bus, video capture card. It supports up to 16 channel (4 x 4) inputs with shared frame technology and captures up to D1 resolution at 30/25 fps frame rate. DVP-7020A allows up to 4 cards installed in one PC system by onboard DIP switch setting and identifies card IDs by LED indicators. DVP-7020A supports NTSC/PAL composite video input through BNC connectors. DVP-7020A has an auto wake-up function with several pre-defined times to wake the system from a dormant state. This function can also be triggered by an outside signal via 2 digital trigger pins. It also has a built-in watchdog timer to reset the system and prevent the system from hanging when unknown errors occur. DVP-7020A is designed with programmable software protection for copy protection issues.

Specifications

Video

- **Input Connectors** 4 BNC connectors
- **Video Standard** Composite for NTSC/PAL
- **Capture Resolution** Up to 720 x 480 (NTSC)/768 x 576 (PAL)
- **Frame Rate** 30 fps (NTSC)/25 fps (PAL)
- **Image Processing** Hardware adjustment of hue, contrast, saturation, and brightness
- **Data Output Format** Multiple YCrCb, RGB and YUV planar formats supported
Selectable pixel density: 8, 16, 24, and 32 bits per pixel

Host Communication

- **Host Interface** PCI v2.2
- **Max. Card** Up to 4 cards in one PC system, setting by DIP switch with LED indicators on bracket
- **Driver and SDK** Supports Microsoft Windows® 2000/XP
- **Demo Program** Complete demo program with C++ source code for reference

Hardware

- **GPIO** TTL/CMOS level 32-bit DI/O
- **EEPROM** 128-bytes EEPROM for programming
- **Dimensions (W x L)** 174.61 x 98.41 mm (6.88" x 3.88")
- **Power Consumption** +5 V DC input by PCI bus, max. 330 mA
- **Temperature** 0 ~ 60° C (32 ~ 140° F; Operating)-20 ~ 70° C (-4 ~ 158° F; Non-operating)

Auto Wake-up (DVP-7020AX)

- **Timer wake-up** Up to 10 pre-set times to wake up system
- **Trigger wake-up** 2 trigger pins to wake up system

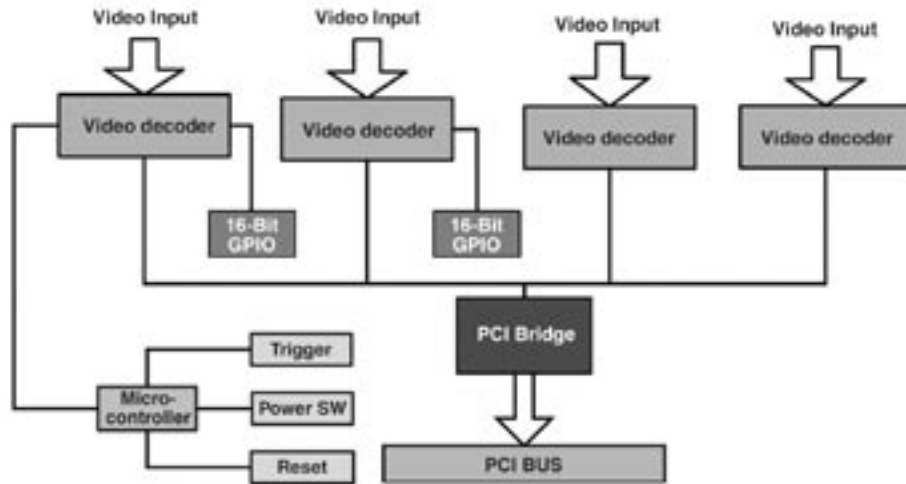
Ordering Information

- **DVP-7020A** 4 channel PCI capture card
- **DVP-7020AX** 4 channel PCI capture card with auto wake-up function
- **DVA-1000** Secure key writer for software copyright protection

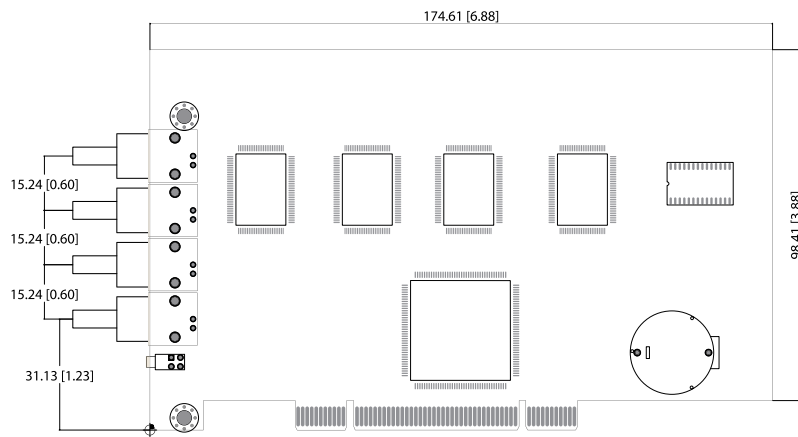
Packing List

- **Startup manual** X 1
- **Utility CD** X 1
- **Standby power cable (DVP-7020AX) (P/N: 1703020451)** X 1
- **Power & reset connection cable (Card to PC) (DVP-7020AX) (P/N: 1703020303)** X 2

Block Diagram



Dimension Diagram



Unit: mm (inch)