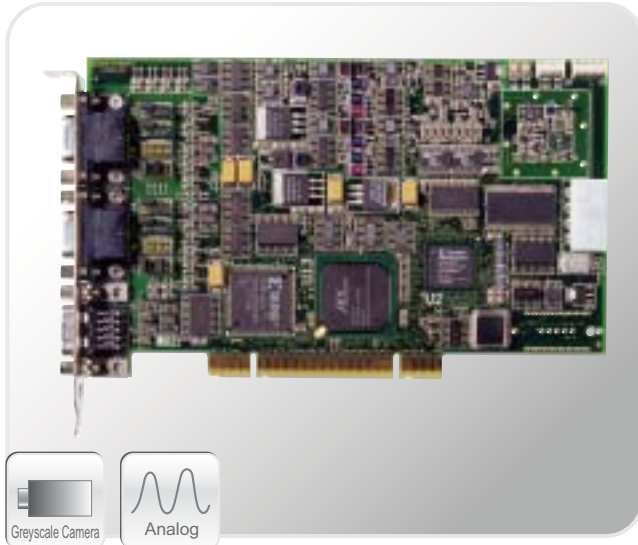


Domino Alpha2

Advanced Monochrome Industrial Image Grabber Card



Features

- 32-bit, PCI bus image grabber card
- Industrial frame grabber compatible with monochrome analog cameras (single or dual-tap)
- Two 8-bit 32MHz A/D converters
- High-resolution, typically 1300 x 1030
- Independent camera control: 2 timing generators, 2 trigger & strobe lines
- Asynchronous reset, shutter control and progressive-scan support
- 8 MB frame buffer
- Libraries, ActiveX controls and DLLs included

Applications

- Quality control
- Semi conductor inspection
- On-the-fly image acquisition
- High frame rate image acquisition

Software Support

DLLs and ActiveX controls for windows NT/95/98/2000

Ordering Information

Domino Alpha2 Advanced monochrome industrial image grabbers card

Introduction

General

The Domino Alpha2 is a flexible industrial frame grabber card compatible with monochrome analog cameras. It is the ideal solution for **on-the-fly** applications.

The Domino Alpha2 provides acquisition from **two single-tap** or **one dual-tap** analog cameras on a single PCI board. The Domino Alpha2 is fitted with **2 camera connectors** and two digitizers. Simultaneous acquisition from both channels is possible. Two timing generators, two trigger and strobe lines are available for independent camera control.

The Domino Alpha2 supports standard as well as top-notch high-resolution cameras with a pixel clock frequency up to **32MHz**. Asynchronous reset, exposure control and progressive scanning are supported. It comes with the **MultiCam** driver, which drastically simplifies its integration into your machine vision application.

Specifications

Acquisition

- Two 8-bit 32MHz A/D converters
- Two 8-bit input **look-up-tables**
- 20, 10 or 5MHz programmable input filter
- Programmable **gain and offset** control PCI Interface

PCI Interface

- PCI rev 2.2 compliant interface
- Support of DMA and bus mastering

Camera Support

- Support of **single-tap** and **dual-tap** analog cameras
- Support of high-resolution cameras, typically up to **1300 x 1030 pixels**
- **Interlaced** or **progressive** scanning
- Asynchronous reset and shutter control
- Camera **pixel clock** support
- Typical configurations supported
 - ▶ Two independent **single-tap** cameras
 - ▶ One **dual-tap** camera

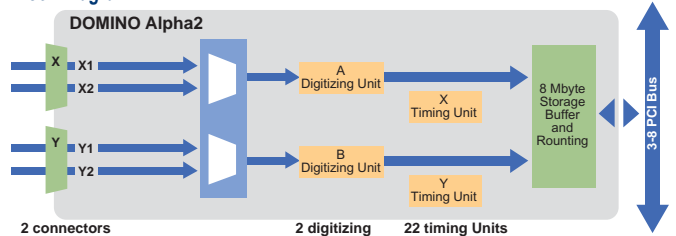
Timing Generators

- Two independent timing generators
- The timing generator X supports analog and digital synchronization
- The timing generator Y only supports digital synchronization
- A digital synchronization requires H, V and pixel clock signals from the camera while an analog synchronization only uses the video signal

Frame Buffer

- 8 Mbyte SDRAM frame buffer

Block Diagram



Connections

Camera Connection

Two DB15HD connectors on the main bracket including:

- Differential / single ended video inputs (75 ohms)
- Reset, VD, HD, exposure control and pixel clock lines
- Specific connection for 12 V camera supply

I/O Connections

Trigger-strobe (3 lines each) DB9 connector.

