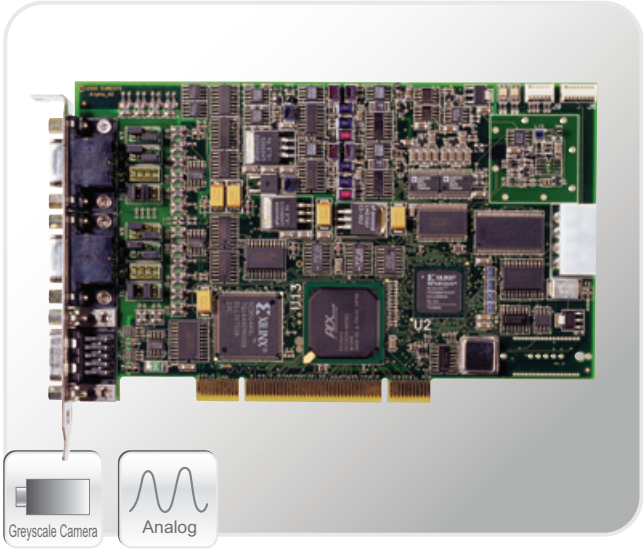
Domino Alpha2

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

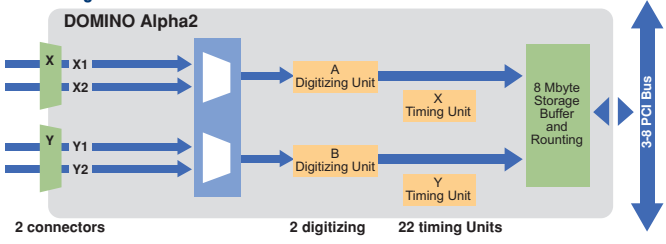
Timing Generators

- 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.