

# EureCard DOMINO Iota

*Image acquisition from a monochrome analog camera*



**Domino Iota** is an entry-level frame grabber for a **single-tap monochrome analog camera**. This new Domino is an ideal solution for **cost-sensitive applications** inspecting fast-moving objects.

This Domino board supports any system functionality associated to industrial acquisition, such as **asynchronous reset, exposure and strobe control**. **TTL I/O lines** are provided for easing system integration.

Domino Iota comes with the **MultiCam driver**, which provides a comprehensive way to specify the camera and system features. MultiCam exposes a driver API (Application Programming Interface) defining a uniform acquisition control layer for all Euresys' frame grabbers. Domino Iota and MultiCam are compatible with **eVision**, the image analysis library from Euresys, offering an extended set of functions optimized for machine vision applications.

- Support for progressive or interlaced single-tap cameras
- 8-bit 32 MHz A/D converter
- High-resolution, typically 1300 X 1030
- Multi-mode synchronization system, including pixel clock and PLL locking
- Asynchronous reset, shutter control, strobe control
- 8-Mbyte frame buffer
- Real-time look-up tables

C, C++ and  
ActiveX libraries  
Included



NEW

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Excellence  
in vision

# DOMINO Iota



## Acquisition

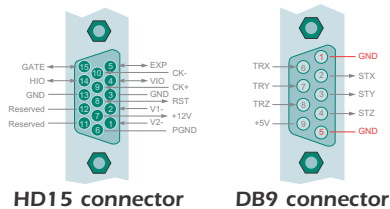
Domino Iota is equipped with an **8-bit A/D converter**. The sampling rate rises up to **32 MHz**. This Domino frame grabber offers **two 8-bit input look-up tables** and a **programmable input filter** (20, 10 or 5 MHz). The **controls of the gain and offset** are programmable.

## PCI interface

Domino Iota is a **32 bit, 33 MHz PCI bus frame grabber** with 3 V or 5 V signaling. **DMA and bus mastering** are supported.

## Camera and I/O connectors

The Domino Iota bracket offers one HD-15 video connector and one DB9 connector.



The **HD15 connector** is compliant with the Euresys-defined analog camera connector and includes camera powering.

The **DB9 connector** manages trigger and strobe functions and general purpose I/O. This connector is identical to the Domino Alpha and Gamma connector.

## Camera support

Domino Iota supports any kind of **single tap camera**: with **progressive or interlaced scanning**, synchronous or **asynchronous reset, shutter control, strobe control**. The **high-resolution** capability of the board is compatible with state-of-art analog cameras (typically **1300 x 1030 resolution**).

A **Multi-mode synchronization system** is available and includes the **pixel clock** and **PLL locking**. Domino series interface a wide range of cameras from many manufacturers. For a complete list, refers to our web site ([www.euresys.com/products/visionboards.asp](http://www.euresys.com/products/visionboards.asp)).

## On-board memory

Domino Iota benefits from an **8 Mbytes** on-board frame buffer.

## Software support

The **MultiCam Driver** enables the consistent control of several Domino and GrabLink frame grabbers, using an arbitrary **number of cameras**, from **one or several software applications**. MultiCam allows defining **channels** linking cameras to buffers in the PC memory. The MultiCam channel **identifies all parameters** ruling the acquisition process from a camera. All camera features, such as resolution and control means, are reported through **simple parameters**. The MultiCam driver runs under Windows 98SE, Me, NT, 2000 and XP.

Offered as a part of the **eVision** tools suite, **EasuMultiCam** is a set of powerful **C++ classes** embedding the whole MultiCam functionality. The **object oriented** eVision functions define image containers suitable for image handling, display, processing and analysis. The image objects inherit acquisition methods from EasyMultiCam. Implementing the image capture code into a machine vision application is now straightforward.

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