

EureCard DOMINO Gamma

Image Acquisition from High-End Analog Cameras



The Domino Gamma is the ideal solution for **high-end multiple-camera applications**.

The **Domino Gamma** provides acquisition from typically **three analog cameras** (up to 6) on a single PCI board. The **Domino Gamma** is fitted with **3 connectors** and **four digitizers**. Simultaneous acquisition from all channels is possible. Three timing generators, three trigger and strobe lines are available for **independent camera control**.

The Domino Gamma supports top-notch high-resolution cameras with a pixel clock frequency up to **40 MHz**. It is compatible with single-tap, dual-tap and RGB cameras and generates 8-bit or 10-bit pixels per channel. 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.

Support of monochrome (single or dual-tap) & RGB analog cameras

- Four 10-bit 40 MHz A/D converters
- High-resolution, typically 1300 X 1030
- Independent camera control:
3 timing generators, 3 trigger & strobe lines
- Asynchronous reset, shutter control and progressive-scan support
- 16 Mbyte frame buffer

Libraries,
DLLs and
ActiveX Controls
Included



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EURESYS
Excellence
in vision

EureCard DOMINO Gamma

M A I N F E A T U R E S

CONNECTIONS

Camera connection

Three 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

- RS-232 (default) or RS-485 (optional) DB9 connector on the extra bracket.
- Trigger-strobe (3 lines each) DB9 connector on the extra bracket.
- General purpose I/O DB9 connector on the extra bracket.



ACQUISITION

- Four 10-bit 40 MHz **A/D converters**.
- Four 10-bit input **look-up-tables**.
- Support of automatic precise **input calibration**.
- 20, 10 or 5 MHz programmable **input filter**.
- Programmable **gain and offset** control.

TIMING GENERATORS

Three independent **timing generators**.

CAMERA SUPPORT

Support of **single-tap**, **dual-tap** and **RGB analog** cameras.

Support of **high-resolution** cameras, typically 1300 x 1030.

Interlaced or progressive scanning.

Asynchronous reset and shutter control.

Camera **pixel clock** support.

Typical configurations supported:

- Three independent single-tap cameras
- Two independent dual-tap cameras
- Two independent single-tap and one dual-tap cameras
- One RGB camera and one monochrome single-tap camera

FRAME BUFFER

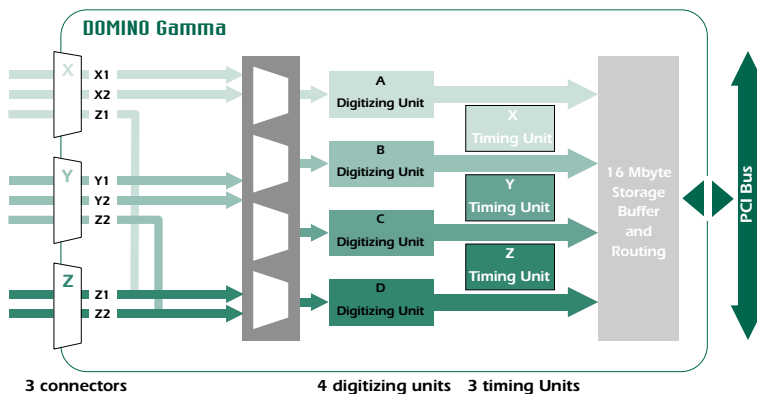
16 Mbyte SDRAM frame buffer.

PCI INTERFACE

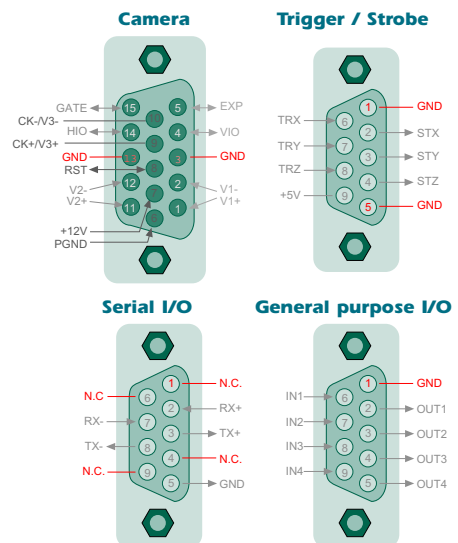
PCI rev 2.2 (5 V and 3.3 V) compliant interface.

Support of DMA and bus mastering.

BLOCK DIAGRAM



CONNECTORS



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