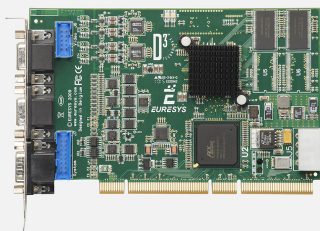




# Domino Harmony

用于两个单头或一个 RGB 非标模拟摄像机的图像采集卡



## 一览

- 三 10 位 40 MHz A/D 转换器
- 64 位 66 MHz PCI 总线
- 极低同步抖动的 D $\square$  技术
- 支持百万像素逐行扫描和隔行摄像机、异步复位和曝光控制
- 触发，闪光及通用 I/O 线

## 优势

享受低成本模拟摄像机的数字质量，感谢我们的 D $\square$  专利技术

- 极低的噪音、真正的 10 位图像采集
- 最低的抖动：使用复合视频信号时，对于大多数精确测量，抖动 0.5 纳秒（或 0.008 像素）
- 无需使用像素时钟

利用好市场上现成的成本最低的工业摄像机

提供 Windows 和 Linux 驱动程序

## 应用

### 一般制造业的机器视觉

用于检测机器的来自工业模拟摄像机的低成本图像采集

利用好市场上现成的带有 Domino 和 PicoLo 系列卡的成本最低的工业摄像机。

## 规范

### Mechanical

Form Factor	PCI card
Format	Standard profile, half-length, 64-bit Conventional PCI card
Dimensions	L 168 mm x H 107 mm L 6.6 in x H 3.87 in

## Host bus

Standard	PCI 64-bit, 66 MHz, 3.3 V and 5 V signaling
DMA	32-bit
Effective (sustained) delivery bandwidth	240 MB/s (Host PC motherboard dependent)
Power consumption	Max. 6.8 W (1.45 A @ +3.3V, 400 mA @ +5V), excluding I/O power output

## Camera / video inputs

Interface standard(s)	Non-standard Analog
Connectors	<ul style="list-style-type: none"><li>• CAMERA X: high-density sub-D 15-pin male connector for video and camera control</li><li>• Camera Y: high-density sub-D 15-pin male connector for video and camera control</li><li>• Video internal: 10-pin shrouded header video connector on the PCB</li></ul>
Termination resistor	Selectable by software
Number of cameras	<ul style="list-style-type: none"><li>• One or two single-tap cameras</li><li>• One RGB camera</li></ul>
Number of cameras (at full frame rate)	2
Line-scan cameras supported	No
A/D converter	Three, 10-bit, 40 MHz
Maximum camera line rate	<ul style="list-style-type: none"><li>• 49.5 kHz in synchronous mode</li><li>• 31.5 kHz in asynchronous reset mode</li></ul>

## On-board processing

On-board memory	64 MB (32 MB for image data)
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## General Purpose Inputs and Outputs

Number of lines	8 I/O lines: <ul style="list-style-type: none"><li>• 2 differential inputs (TRX, TRY)</li><li>• 2 opto-isolated outputs (STX, STY)</li><li>• 4 TTL inputs/outputs (ENHANCED IO1..4)</li></ul>
Connectors	<ul style="list-style-type: none"><li>• SYSTEM: 15-pin male sub-D connector on the bracket</li><li>• SYSTEM INTERNAL: 16-pin shrouded header on the PCB</li><li>• POWER: Molex 4-pin connector on the PCB for camera powering</li></ul>
Usage	<ul style="list-style-type: none"><li>• Camera and image acquisition trigger</li><li>• Light strobe trigger</li><li>• General purpose IO</li></ul>
Electrical specifications	<ul style="list-style-type: none"><li>• TRX, TRY: Inputs compatible with TTL, LVTTTL, differential LVDS, differential RS422, differential RS-485 signals, protected against electrostatic discharge, with choke for the rejection of common-mode noise</li><li>• STX, STY: Opto-isolated outputs, compatible with signals up to 60V, with 3 <math>\mu</math>s fall time, isolated up to 500V</li><li>• IO: TTL inputs or outputs</li></ul>

## Software

Host PC Operating System	<ul style="list-style-type: none"><li>• Microsoft Windows 10, 8.1, 8, 7, XP</li><li>• Microsoft Windows Server 2012 R2, 2012, 2008 R2</li><li>• Linux Kernel versions from 2.6 up to 3.13, compatible with a wide range of distributions</li><li>• 32- and 64-bit versions</li></ul>
APIs	<ul style="list-style-type: none"><li>• MultiCam 32-bit and 64-bit binary libraries (Windows and Linux), for ISO-compliant C/C++ compilers</li><li>• DirectShow filters (Windows only) for Microsoft Visual C++ compilers (32-bit only)</li></ul>

## Environmental conditions

Operating ambient air temperature	0 to +50 °C / +32 to +122 °F
Operating ambient air humidity	10 to 90% RH non-condensing
Storage ambient air temperature	-20 to +70 °C / -4 to +158 °F
Storage ambient air humidity	10 to 90% RH non-condensing

## Certifications

Electromagnetic - EMC standards	<ul style="list-style-type: none"><li>• The European Council EMC Directive 2004/108/EC</li><li>• The United States FCC rule 47 CFR 15</li></ul>
EMC - Emission	<ul style="list-style-type: none"><li>• EN 55022:2010 Class B</li><li>• FCC 47 Part 15 Class B</li></ul>
EMC - Immunity	<ul style="list-style-type: none"><li>• EN 55024:2010 Class B</li><li>• EN 61000-4-2</li><li>• EN 61000-4-3</li><li>• EN 61000-4-4</li></ul>
Flammability	PCB compliant with UL 94 V-0
RoHS	Compliant with the European Union Directive 2011/65/EU (ROHS2)
REACH	Compliant with the European Union Regulation No 1907/2006
WEEE	Must be disposed of separately from normal household waste and must be recycled according to local regulations

## Ordering Information

Product code - Description	<ul style="list-style-type: none"><li>• 1168 - Domino Harmony</li></ul>
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