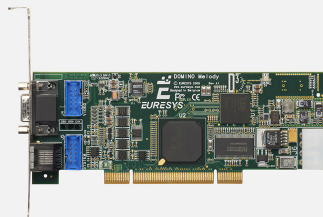


# Domino Melody

用于单头非标模拟摄像机的小型图像采集卡



## 一览

- 一个 10 位 40 MHz A/D 转换器，带一个 8 位或 10 位 LUT
- 32 位 33 MHz PCI 总线，标准和小型支架
- 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      | Low profile, half-length, 32-bit Conventional PCI card |
| Dimensions  | L 168 mm x H 64 mm                                     |
|             | L 6.6 in x H 2.21 in                                   |

## Host bus

|  |   |
|--|---|
| Standard                                 | PCI 32-bit, 33 MHz, 3.3 V and 5 V signaling                           |
| DMA                                      | 32-bit  |
| Peak delivery bandwidth                  | 132 MB/s  |
| Effective (sustained) delivery bandwidth | 90 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: high-density sub-D 15-pin male connector on the bracket</li><li>• Camera internal: 10-pin shrouded header video connector on the PCB</li></ul> |
| Termination resistor                   | Selectable by software   |
| Number of cameras                      | One single-tap camera  |
| Number of cameras (at full frame rate) | 1  |
| Line-scan cameras supported            | No   |
| A/D converter                          | One, 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           | 16 MB (8 MB for image data) |
| Input LUT (Look-Up-Table) | 1 x 8- or 10-bit LUT        |

## General Purpose Inputs and Outputs

|                           |   |
|---------------------------|---|
| Number of lines           | 4 I/O lines: <ul style="list-style-type: none"><li>• 1 differential input (TR)</li><li>• 1 opto-isolated output (ST)</li><li>• 2 TTL inputs/outputs (ENHANCED IO)</li></ul>   |
| Connectors                | <ul style="list-style-type: none"><li>• SYSTEM: 8-pin RJ-45 connector on the bracket</li><li>• SYSTEM INTERNAL: 10-pin dual-row 0.1" shrouded header on the PCB</li><li>• CAMERA POWER: 4-pin Molex 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>• TR: 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>• ST: Opto-isolated outputs, compatible with signals up to 60V, with 3 <math>\mu</math>s fall time, isolated up to 500V</li><li>• ENHANCED IO Inputs or outputs compatible with TTL signals, protected against electrostatic discharge, with high-frequency noise filter</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>• 1167 - Domino Melody</li></ul> |
|----------------------------|--|



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