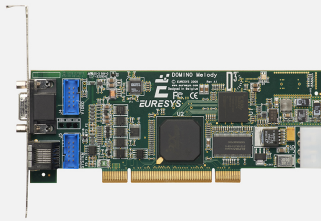


Domino Melody

Low-profile frame grabber for one single-tap non-standard analog camera



At a Glance

- One 10-bit 40 MHz A/D converter with one 8- or 10-bit LUT
- 32-bit 33 MHz PCI bus, standard and low profile brackets
- D³ technology for extremely low synchronization jitter
- Support for mega-pixel progressive-scan and interlaced cameras, asynchronous reset and exposure control
- Trigger, strobe and general purpose I/O lines

Benefits

Enjoy digital quality from low-cost analog cameras thanks to our patented D³ technology

- Extremely low noise, true 10-bit image acquisition
- Lowest jitter: 0.5 ns (or 0.008 pixels) even when using composite video signals, for the most precise measurements
- No need to use pixel clock

Take advantage of the lowest-cost industrial cameras available on the market

Windows and Linux drivers available

Applications

Machine Vision for the General Manufacturing Industries

- Low cost image acquisition from industrial analog cameras for inspection machines

Specifications

Mechanical

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">• CAMERA: high-density sub-D 15-pin male connector on the bracket• Camera internal: 10-pin shrouded header video connector on the PCB
Termination resistor	Selectable by software
Number of cameras	One single-tap camera
Number of cameras (at full frame rate)	1
A/D converter	One, 10-bit, 40 MHz
Maximum camera line rate	<ul style="list-style-type: none">• 49.5 kHz in synchronous mode• 31.5 kHz in asynchronous reset mode

On-board processing

On-board memory	16 MB (8 MB for image data)
Input LUT (Lookup 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">• 1 differential input (TR)• 1 opto-isolated output (ST)• 2 TTL inputs/outputs (ENHANCED IO)
Connectors	<ul style="list-style-type: none">• SYSTEM: 8-pin RJ-45 connector on the bracket• SYSTEM INTERNAL: 10-pin dual-row 0.1" shrouded header on the PCB• CAMERA POWER: 4-pin Molex connector on the PCB for camera powering
Usage	<ul style="list-style-type: none">• Camera and image acquisition trigger• Light strobe trigger• General purpose IO
Electrical specifications	<ul style="list-style-type: none">• 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• ST: Opto-isolated outputs, compatible with signals up to 60V, with 3 μs fall time, isolated up to 500V• ENHANCED IO Inputs or outputs compatible with TTL signals, protected against electrostatic discharge, with high-frequency noise filter

Software

Host PC Operating System	<ul style="list-style-type: none">• Microsoft Windows 10, 8.1, 7 for x86 (32-bit) and x86-64 (64-bit) processor architectures• Linux for x86 (32-bit) and x86-64 (64-bit) processor architectures <p>Refer to release notes for details</p>
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APIs • MultiCam 32- and 64-bit binary libraries (Windows and Linux), for ISO-compliant C/C++ compilers

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 • European Council EMC Directive 2004/108/EC
• United States FCC rule 47 CFR 15

EMC - Emission • EN 55022:2010 Class B
• FCC 47 Part 15 Class B

EMC - Immunity • EN 55024:2010 Class B
• EN 61000-4-2
• EN 61000-4-3
• EN 61000-4-4

KC Certification Korean Radio Waves Act, Article 58-2, Clause 3

Flammability PCB compliant with UL 94 V-0

RoHS European Union Directive 2015/863 (ROHS3)

REACH European Union Regulation 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 • 1167 - Domino Melody



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