

Do not use for new design

# Domino Symphony PCIe

Frame grabber for four single-tap non-standard analog cameras



## At a Glance

- Four 10-bit 65 MHz A/D converters with four 8- or 10-bit LUTs
- PCle x1 bus
- D<sup>3</sup> 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 D<sup>3</sup> technology

- Extremely low noise, true 10-bit image acqusition
- 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 Electronic Manufacturing Industry

- High speed image acquisition for AOI, 3D SPI, 3D lead/ball inspection machines.
- Very high resolution line-scan image acquisition for Flat Panel Display inspection and solar cell inspection

# **Machine Vision for the General Manufacturing Industries**

- High frame rate image acquisition for inspection machines
- Line-scan image acquisition for surface inspection machines
- Line-scan image acquisition for textile inspection
- Low cost image acquisition from industrial analog cameras for inspection machines

# **Machine Vision for the Printing Industry**

• High speed line-scan image acquisition for printing inspection machines

## **Video Acquisition and Recording**

• High-frame-rate video acquisition for motion analysis and recording

# **Specifications**

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Format	Standard profile, half length, 1-lane PCI Express card	
Dimensions	PCB L X H: 167.65 mm x 111.15 mm, 6.6 in x 4.38 in	
Weight	135 g, 4.76 oz	
Host bus		
Standard	PCI Express 1.0	
Link width	1 lane	
Link speed	2.5 GT/s (PCIe 1.0)	
DMA	32-bit	
Peak delivery bandwidth	256 MB/s	
Effective (sustained) delivery bandwidth	180 MB/s (Host PC motherboard dependent)	
Power consumption	Typ. 8.3 W (940 mA @ +3.3V, 430 mA @ +12V), excluding I/O power output	
Camera / video inputs		
Interface standard(s)	Non-standard Analog	
Connectors	CAMERAS: high-density sub-D 44-pin male connector for video and camera control	
	Internal video: 10-pin shrouded header video connector on the PCB	
Termination resistor	Selectable by software	
Number of cameras	Four single-tap cameras	
Number of cameras (at full frame rate)	4	
A/D converter	Four, 10-bit, 65 MHz	
Maximum camera line rate	52.5 kHz	
On-board processing		
On-board memory	64 MB (32 MB for image data)	
Input LUT (Lookup Table)	4 x 8- or 10-bit LUT	
General Purpose Inputs and		
Outputs		
Number of lines	32 I/O lines:	
	• 4 contact inputs (Factory I/O: IN)	
	• 12 relay outputs (Factory I/O: OUT)	
	• 4 TTL inputs/outputs (System: IO)	
	• 4 differential inputs (System: TR)	
	• 4 opto-isolated outputs (System: ST)	
	• 4 full-duplex serial com ports (Camera COM: RX/TX)	
Connectors	EXTERNAL SYSTEM: 26-pin high-density male sub-D connector on the bracket	
	• INTERNAL SYSTEM: 26-pin dual-row 0.1" shrouded header on the PCB	
	<ul> <li>FACTORY I/O: 34-pin dual-row 0.1" shrouded header on the PCB</li> </ul>	
	<ul> <li>FACTORY I/O: 34-pin dual-row 0.1" shrouded header on the PCB</li> <li>CAMERA COM: 16-pin dual-row 0.1" shrouded header on the PCB</li> </ul>	

Light strobe trigger   Seneral purpose IO	Usage	Camera and image acquisition trigger
Electrical specifications  Fig. Inputs compatible with TTL, LVTTL, differential LVDS, differential RS422, differential RS48 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  Oil Inputs or outputs compatible with TTL, signals, protected against electrostatic discharge, with high-frequency noise filter  IN: Polarity-free inputs, compatible with TTL, 12V and 24V signals, opto-couplers, relays and switches  OUT: Opto-isolated potential-free and polarity-free solid-state outputs, compatible with signals up to 30V, with 4 µs fall time, isolated up to 500V  COM: RS232 asynchronous serial communication lines to control the cameras (exposed to the OS as standard COM ports)  Software  Host PC Operating System  Microsoft Windows 10, 8.1, 7 for x86 (32-bit) and x86-64 (64-bit) processor architectures elease notes for details  APIS  MultiCam 32- and 64-bit binary libraries (Windows and Linux), for ISO-compliant C/C++ compilers  Environmental conditions  Environmental conditions  Doerating ambient air temperature  Oto +50°C/+32 to +122°F  Operating ambient air temperature  20 to +70°C/+40 +158°F  Storage ambient air humidity  10 to 90% RH non-condensing  Certifications  Electromagnetic - EMC standards  Electromagnetic - EMC standards  EMC - Emission  EMC - Emission  EN S5022:2010 Class B  EMC - Immunity  EN S5022:2010 Class B  EMC - Immunity  EN S5022:2010 Class B  EMC - Immunity  PCB complaint with UL 94 V-0  RoHS  RoHS  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  * 1601 - Domino Symphony PCIe		
### TR: Inputs compatible with TTL, LVTTL, differential LVDS, differential RS422, differential RS424, differential RS4485 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  **IO: Inputs or outputs compatible with TTL signals, protected against electrostatic discharge, with high-frequency noise filter  **IN: Polarity-free inputs, compatible with TTL, 12V and 24V signals, opto-couplers, relays and switches  **OUT: Opto-isolated potential-free and polarity-free solid-state outputs, compatible with signals up to 30V, with 4 µs fall time, isolated up to 500V  **COM: RS232 asynchronous serial communication lines to control the cameras (exposed to the OS as standard COM ports)  **Software**  **Host PC Operating System**  **Microsoft Windows 10, 8.1, 7 for x86 (32-bit) and x86-64 (64-bit) processor architectures timux for x86 (32-bit) and x86-64 (64-bit) processor architectures  **Linux for x86 (32-bit) and x86-64 (64-bit) processor architectures  **Environmental conditions**  **Proving ambient air temperature**  **Departing ambient air temperature**  **Operating ambient air temperature**  **Operating ambient air temperature**  **Operating ambient air temperature**  **Oto **10 to 90% RH non-condensing**  **Dot **Oto **10 **C / + 4 to +158 *F**  **Storage ambient air temperature**  **Oto **10 **C / + 4 to +158 *F**  **Storage ambient air temperature**  **Oto **10 **C / + 4 to +158 *F**  **Storage ambient air humidity**  **Description**  **European Council EMC Directive 2004/108/EC**  **EMC - Emission**  **EUROPEAN Council EMC Directive 2004/108/EC**  **EN \$5024.2010 Class B**  **EMC - Emission**  **EUROPEAN Council EMC Directive 2004/108/EC**  **EN \$5024.2010 Class B**  **EMC - Emission**  **EMC Certification**  **EMC Certific		
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	Ordering Information	
<u> </u>	Product code - Description	• 1601 - Domino Symphony PCIe
	Optional accessories	• 6011 - Symphony Spider Cable



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