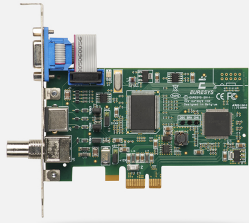


# Piccolo PCIe

PCIe video capture card with BNC and S-Video connectors for standard PAL/NTSC cameras



## At a Glance

- BNC, DB9 and S-Video connectors
- PCIe x1 bus
- Acquisition of composite or separate video (S-Video) signals
- One video decoder, 25/30 images per second (50/60 fields per second)
- PCI and PCIe versions available

## Benefits

**Robust, reliable, dependable video capture card**

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

**Supports S-Video signals for the highest quality color images**

**Windows and Linux drivers available**

## Applications

### MACHINE VISION FOR THE GENERAL MANUFACTURING INDUSTRIES

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

Take advantage of the lowest-cost industrial cameras available on the market with the Domino and Piccolo series cards.

### LIFE SCIENCES & MEDICAL

Endoscopy applications

**Standard and high-definition image acquisition**

Dental applications

Video-guided surgery applications

### MICROSCOPY

**High-definition image acquisition**

Offline inspection stations

Laboratory and measuring microscopes

## Specifications

### Mechanical

Form Factor	PCI Express card
Format	Low profile, half length, 1-lane PCI Express card
Dimensions	L 115.00 mm x H 64.40 mm

### 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
Power consumption	Max. 2.6 W (200 mA @ +3.3V, 160 mA @ +12V), excluding I/O power output

### Camera / video inputs

Interface standard(s)	NTSC-M, PAL-B/G, RS-170, CCIR
Connectors	<ul style="list-style-type: none"><li>• VIDEO 1: BNC female connector on the bracket for composite video input</li><li>• S-VIDEO: 4-pin mini-DIN female connector on the bracket for components video input</li><li>• DB9: 9-pin sub-D female connector on the bracket (not available with low-profile bracket)</li><li>• Internal: 10-pin shrouded male header on the PCB</li></ul>
Termination resistor	Selectable using jumpers on the PCB
Native resolution	Square pixels, broadcast and custom resolutions
Frame rate	Up to 25/30 images per second, 50/60 fields per second
Number of cameras	3
Number of cameras (at full frame rate)	1
Line-scan cameras supported	No

### Video delivery

Raw video format(s)	Planar, packed, YUV and RGB color formats
Deliverable video resolution (SD)	Frame, field, CIF, QCIF and custom image formats

### General Purpose Inputs and Outputs

Number of lines	4 I/O lines (IO)
Connectors	<ul style="list-style-type: none"><li>• DB9: 9-pin female sub-D connector on the bracket (not available when the low-profile bracket is installed)</li><li>• INTERNAL: 10-pin dual-row 0.1" shrouded header on the PCB</li></ul>
Usage	General purpose IO
Electrical specifications	IO: TTL-compatible I/O lines

## Software

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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>

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## Environmental conditions

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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

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## Certifications

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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><li>• EN 61000-4-5</li><li>• EN 61000-4-6</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

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## Ordering Information

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Product code - Description	1685 - Picolo PCIe
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