

Hardware | Framegrabber | Acquisition Boards

Acquisition Features

SILICONSOFTWARE

A-Series Camera Link

microEnable IV AS1-PoCL



Single channel PCIe frame grabber for Camera Link with PoCL support

The microEnable IV AS1-PoCL is a one-port frame grabber for a Base configuration Camera Link camera. Besides powerful acquiring functions it additionally possesses a high-precision trigger system for especially fulfilling requirements of line-scan camera applications. In addition it is shipped with valuable image pre-processing functions that can be run in real time without loading of the host CPU.

The microEnable IV AS1-PoCL uses the longtime tested and reliable technology of highperformance processing boards and possesses a comparable capacity and functional range.

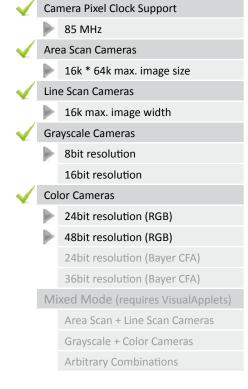
With supporting the Power over Camera Link technology you can realize price-effective and low-maintenance systems with this product. microEnable IV AS1-PoCL is delievered with a powerful but intuitively to handle software development kit (SDK) and a wide range of drivers for 32bit and 64bit operation systems. A similar code base for software, drivers and even hardware applets and more over an common interface concept for hardware extensions and fea-

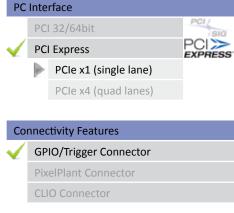
all frame grabber series.
microEnable AS1-PoCL is the ideal entry level
for image acquisition systems with moderate
requirements to data bandwidth. The concept
of the product series easily allows to adapt the
system to higher requirements

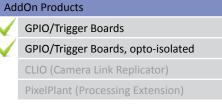
tures guarantees highest compatibility between











Physical Board Properties 168 mm length x 111 mm height Operating temperature 0°C - 50°C

Any information without obligation. Technical specifications and scope of delivery are liability-free and valid until revocation. Mistakes are excepted



Germany



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Image Acquisition Features

- Sensor Tap Sorting
- Knee Lookup Table
- Basic Image Processing, e. g. Brightness, Contrast and Gamma Correction
- Internal 16bit Processing
- Regions of Interest (ROI)
- 0 Minimal Latency of a Single Line
- Hardware Generated Image Number
- Camera Detection Abilities
- No Need of Camera Configuration Files
- Support of Camera Link RS232 Interface clser
- Highly Customizable Trigger System
- DigI/O and CC Signals
 - ... and further ones

Special Features

- Shaft Encoder A/B Support (Revolving Direction Detection and Compensation)
- Software Trigger Control
- **Support for Non-Standard Formats**
 - ... and further ones

\checkmark	Windows XP	32bit	64bit
✓	Windows Vista	32bit	64bit
</th <th>Windows 7</th> <th>32bit</th> <th>64bit</th>	Windows 7	32bit	64bit
\checkmark	Linux (Kernel 2.6.23+)	32bit	64bit

Hardware/Software Compatibility

new product line

Operation Systems

Scematic layout of microEnable IV AS1-PoCL

Power-Over-Camera Link

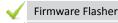
The microEnable IV AS1-PoCL frame grabber supports Power over Camera Link (PoCL) cameras. The implementation is backward compatible to the standard Camera Link, so both PoCL and standard Camera Link cameras can be used.

To prevent any damage from the camera and grabber, a PoCL SafePower system is implemented. It automatically detects the presence of a PoCL cable and camera to allow safe switching of the camera power. Both ports of the grabber are autonomous and will be tested and supplied independently. The state of the power system will be visually indicated.

Trigger-IF PORT A SYSTEM PROC. PHY	PoCL [Power over CameraLink]
0 0	SILICON SOFTWARE microEnable IV AST-PoCL
PCIexI	

Software Products

Device Drivers



microDisplay

microDiagnostics

microEnable SDK

Processing Libraries

incl.

Supported Features	
Sorted by Hardware Applets fo	r

microEnable IV AS		Single Area Gray 16	Single Area RGB 48	Single Line Gray 16	Single Line RGB 48
CameraLink	BASE Configuration	-	•	-	•
Camera Type	Area Scan / Line Scan	Α	Α	L	L
	GrayScale / RGB / Bayer	G	RGB	G	RGB
	1- / 2-Camera Operation	1	1	1	1
Color Processing	White Balancing				•
Image Enhancement	Knee-LUT Table	-	•	-	•
	Image Processing (Offset, Gain, Gamma, Invert)	•	-	•	•
Image Correction	Sensor Readout Correction (Tap Sorting)	•		•	
Acquisition Modes	Image Selector	•	-	•	•
	Area Trigger	•	•		
	Line Trigger			•	•
	Shaft Encoding			-	•
Performances	Max. width (in k pixels)	16	8	16	8
	Max. height (in k lines)	64	∞	64	∞
	Image frequency (in k fps)	20	20	10	10
Image Formats	Gray8 or RGB24	•	-	•	•
	Gray16 or RGB 48	•	-		

Siliai trippiets base
SmartApplets Extended
VisualApplets Base
VisualApplets Blob

AcquisitionApplets

Processing Licenses (Base version)

SmartApplets enabled VisualApplets enabled

VisualApplets Compression

Gray16 or RGB 48

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