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microGrabber

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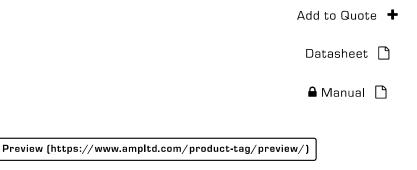
[https://www.addtoany.com/share#url=https%3A%2F%2Fwww.ampltd.com%2Fproducts%2Fmini-pci-video-micrograbber%2F&title=microGrabber%20-%204-Channel%20Video%20Capture%20and%20Overlay%20Controller%20for%20mini%20PCl%20-%20Advanced%20Micro%20Peripherals%20-

% 20 PC 104% 2C% 20 miniPC le% 2C% 20 Compact PCI% 20 Serial% 2C% 20 XMC% 2C% 20 VPX% 20 PC miniPC le% 20 Compact PCI% 20 Serial% 2C% 20 XMC% 2C% 20 VPX% 20 PC miniPC le% 2C% 20 Video% 20 Streaming% 2C% 20 Signal% 20 Conversion)

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4-Channel Video Capture and Overlay Controller for mini PCI

The microGrabber is a 4-channel video capture and overlay controller on a single Type-III mini PCI module providing a simple solution for capturing four concurrent analog video inputs for local system display or software analysis and processing. The microGrabber allows each of the 4 video channels to be captured at full D1 size, all at full frame rate and then scaled, cropped and positioned under software control. In addition to the video capture, the microGrabber also provides capture of up to 4 mono audio sources. The captured video data can be streamed continuously to system memory for immediate local display or further processing. The capture engine of the microGrabber features hardware color space conversion to present the captured video data in the format best suited to the end application.



Highlights

- Supports 4 NTSC / RS-170, PAL / CCIR, SECAM analog video sources
- 4 x D1 size image capture at full frame rate
- 4 channel audio encoder
- Arbitrary video window sizing, cropping and scaling
- Windows DirectShow/DirectDraw support
- Linux Video4Linux support
- Low power Type IIIB mini PCI form factor
- Operating temperature: 0°C to +60°C or -40°C to +85°C

Supported Platforms





Windows 7, Windows 8, Windows 10, Linux

Specifications

Mini PCI Bus Interface

Type III mini PCI card

132MBytes/sec bandwidth at 33.33 MHz bus speed

Live video capture to display, memory or disk

Analog Video Input

Up to 4 concurrent composite PAL or NTSC video input channels

Four 10-bit Analog-to-Digital converters

Anti-aliasing filters on inputs

Video Input Formats

NTSC-M, NTSC-Japan, NTSC (4.43), RS-170

PAL-B,G,N, PAL-D, PAL-H, PAL-I, PAL-M, PAL-CN, PAL-60

SECAM

Video Input Adjustments

Contrast (or luma gain) adjustable from 0 – 255% of original

Saturation (or chroma gain) adjustable from 0 - 200% of original

Hue (or chroma phase) adjustable from -36° to +36°

Brightness (or luma level) can be adjusted from -128 to 127

Software adjustable Sharpness, Gamma and noise suppression

Video Capture Formats

RGB

YCbCr 4:2:2

YCbCr 4:1:1

Audio Inputs

4 mono audio inputs

10-bit Analog-to-Digital Converter per channel

Audio Capture Format

8-bit PCM

Video Processing

Arbitrary sizing, cropping, scaling of each video channel

System Requirements

x86 PC-Compatible Host Computer

Mini PCI type III slot

PCI or AGP Display (if Video Preview to host is required)

Miscellaneous

Single +3.3V supply

Operating temp O°C to 60°C

Operating temp -40°C to +85°C (extended temp option)

Mini PCI type IIIB form factor

Software Drivers

Drivers for Windows, Linux

Sample video overlay and capture application in C/C++ source code

| Downloads | | |
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