The AVC-cPCIs is a high-performance 8-channel video capture and overlay controller on a 3U CompactPCI-Serial card. The AVC-cPCIs provides a powerful and flexible solution for capturing up to eight concurrent analog video inputs for local system display or software analysis and processing, ideal for embedded Situational Awareness systems in the most demanding environment.

The AVC-cPCIs allows each of the 8 video channels to be captured at full D1 size, all at full frame rate. The captured video data can be streamed continuously to system memory or disk for either immediate local display or further processing. The capture engine of the AVC-cPCIs features hardware color space conversion to present the captured video data in the format best suited to the end application.

The AVC-cPCIs is supported by drivers for Windows and Linux.
Applications

High performance image capture
Vehicle-based Video Capture
Real-time Situational Awareness
Law Enforcement
Crime Scene Recording
Remote Video Surveillance
Multi-camera Security Application
Asset Monitoring
Traffic Monitoring and Control
Video Acquisition and Analytics
AVC-cPCIs

8x D1 Video Frame Grabber for CompactPCI-Serial

**Features**

- 8 Live NTSC/PAL video inputs
- 8 x D1 size capture at full frame rate
- Windows DirectShow/DirectDraw support
- Efficient PCI DMA cycle operation
- Linux Video4Linux2 support
- Drivers for Windows, Linux
- 3U CompactPCI-Serial form factor.
- Low Power Operation
CompactPCI Serial Bus Interface
- 3U CompactPCI-Serial card
- Live video capture to display, memory or disk

Analog Video Input
- Up to 8 concurrent composite PAL or NTSC video input channels
- Eight 10-bit Analog-to-Digital converters
- Anti-aliasing filters on inputs

Video Input Formats
- NTSC-M, NTSC-Japan, NTSC (4.43), RS-170
- 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 steps
- Software adjustable Sharpness, Gamma and noise suppression

Video Capture Formats
- RGB555, RGB565
- YCbCr 4:2:2
- YCbCr 4:1:1

System Requirements
- x86 PC-Compatible with mini PCI Express socket
- PCI VGA Display (if Video Preview to host is required)

Mechanical
- Standard 3U CompactPCI-Serial form factor
- Operating temp 0˚C to 60˚C
- Operating temp −40˚C to +85˚C (extended temp option)

Software Drivers
- Drivers for Windows, Linux
- Sample video overlay and capture application in C/C++ source code

Ordering Information
- AVC-cPCIs
  - Video Capture and Overlay Controller (0 to 60˚C)
- AVC-cPCIs-EXT
  - Video Capture and Overlay Controller (-40˚C to +85˚C)

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