

HDGrabber-DVI

HDMI/DVI Video Capture Controller for PCI-104



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The HDGrabber-DVI is a high performance, High Definition, video capture and overlay card for PCI-104 systems. The HDGrabber-DVI provides a powerful and flexible solution for capturing HDMI/DVI digital video for software analysis and processing or local system display.



Live Frame Capture
from HDMI/DVI at
Full HD resolution

The HDGrabber-DVI features an advanced video scalar that reduces the frame rate of the incoming video allowing high frame-rate high resolution sources to be captured without any compression. This powerful solution supports raw video capture at Full HD resolution at 10fps (1920x1080@10Hz) from a 1080p60/1080p30 source. The flexible capture engine also supports lower resolution capture at higher frame rates. The capture engine is configurable under software control.

The HDGrabber-DVI is supported by drivers and example applications for Windows and Linux that use the OS standard DirectShow and V4L interfaces.

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Preliminary Information. Subject to change without notification

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High performance
video capture
Ideal for
Surveillance,
Situational awareness

Applications

High performance image capture

Vehicle-based Video Capture

Real-time Situational Awareness

Law Enforcement

Crime Scene Recording

Remote Video Surveillance

Asset Monitoring

Traffic Monitoring and Control

Video Acquisition and Analytics

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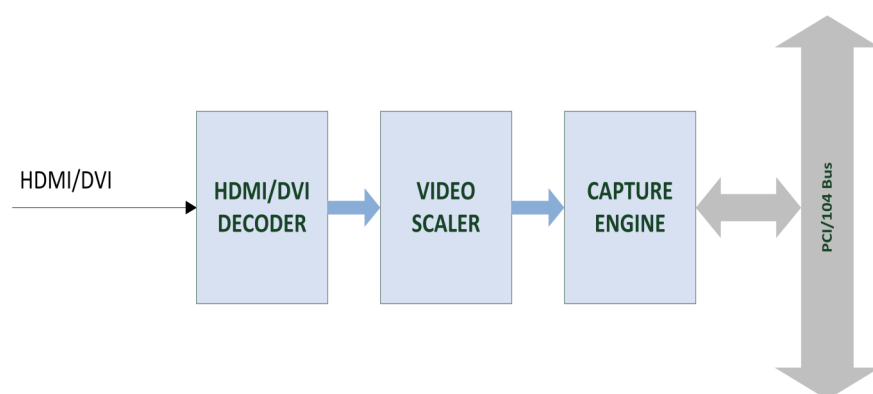
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HDGrabber-DVI Functional Diagram

Windows

and

Linux

support

Features

Live DVI/HDMI video input

Flexible capture resolution and frame rate up to 1080p10

Hardware scaling

Framerate conversion

Efficient PCI DMA cycle operation

Drivers for Windows, Linux

Robust PCI-104 construction

Low Power Operation

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PCI/104 Bus Interface

Compliant with PCI Rev 2.1
132MBytes/sec bandwidth at 33.33MHz bus speed
Live video capture to display, memory or disk

Video Input

Digital DVI input (DVI/HDMI)

Video Capture Resolutions

Supports wide range of capture resolutions, including:
1080p @ 10fps max
720p @ 20fps max
480p @ 60fps max
1024x768 @ 25fps
Video Scaler offers flexible hardware scaling of input video

Video Capture Formats

YCbCr 4:2:2

Video Processing

Arbitrary sizing, cropping, scaling of input video

System Requirements

x86 PC-Compatible PCI-104 Host Computer
VGA Display (if Video Preview to host is required)

Miscellaneous

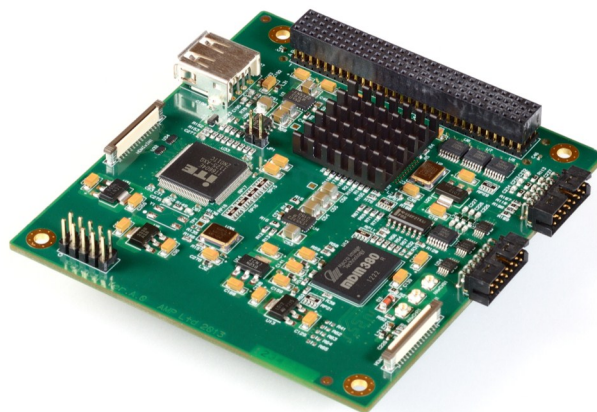
Single +5V supply
Operating temp 0°C to 60°C
Operating temp -40°C to +85°C (extended temp option)
PCI-104 form factor

Software Drivers

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

Ordering Information

HDGrabber-DVI	Video Capture and Overlay Controller (0 to 60°C)
HDGrabber-DVI-Ext	Video Capture and Overlay Controller (-40°C to +85°C)



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