

# nanoGrabber-HD-HDMI

HD HDMI Video Frame Grabber for miniPCI-Express



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The nanoGrabber-HD-HDMI is a high-performance, high definition, raw video framegrabber miniPCI-Express card. The nanoGrabber-HD-HDMI provides a powerful and flexible solution for capturing HDMI digital video for local system display or software analysis and processing. The small form factor of the nanoGrabber-HDMI makes it ideal for embedded Situational Awareness systems in the most demanding environment.



The nanoGrabber-HD-HDMI supports real-time video capture at up to 1080p30. The flexible capture engine also supports other common HDMI resolutions allowing data to be captured from a wide range of sources and sensors. The captured video data can be streamed continuously to system memory or disk for either immediate local display or further processing.

The nanoGrabber-HDMI is supported by drivers and example applications for Windows and Linux.

## Preliminary Information (Rev A.00)

Subject to change without notification

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Raw video capture  
from  
HDMI  
at up to  
1080p30



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*Photo credit: U.S. Government*

SWaP optimised for  
demanding  
applications in the  
**Military,**  
Transportation,  
Mining, and  
Energy Industries

## 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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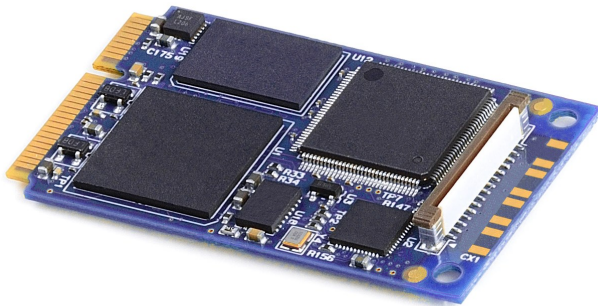
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**nanoGrabber-HD-HDMI**

Windows

DirectShow

and

Linux V4L2

support

## Features

Live HDMI video input

Flexible capture resolution up to 1080p30/1080i60

Windows DirectShow/DirectDraw support

Linux Video4Linux support

Drivers for Windows, Linux

Compact miniPCI-express form factor

Low Power Operation

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### Mini PCI Express Bus Interface

Full height miniPCI-Express card  
Live video capture to display, memory or disk

### Video Input

Digital HDMI input

### Video Input Resolutions

Flexible capture at up to 1080p30  
Supports common HDMI resolutions including;  
720p25, 720p30,  
720p50, 720p60  
1080p25, 1080p30  
1080i50, 1080i60

### Video Capture Formats

YCbCr 4:2:2  
YCbCr 4:2:0

### System Requirements

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

### Miscellaneous

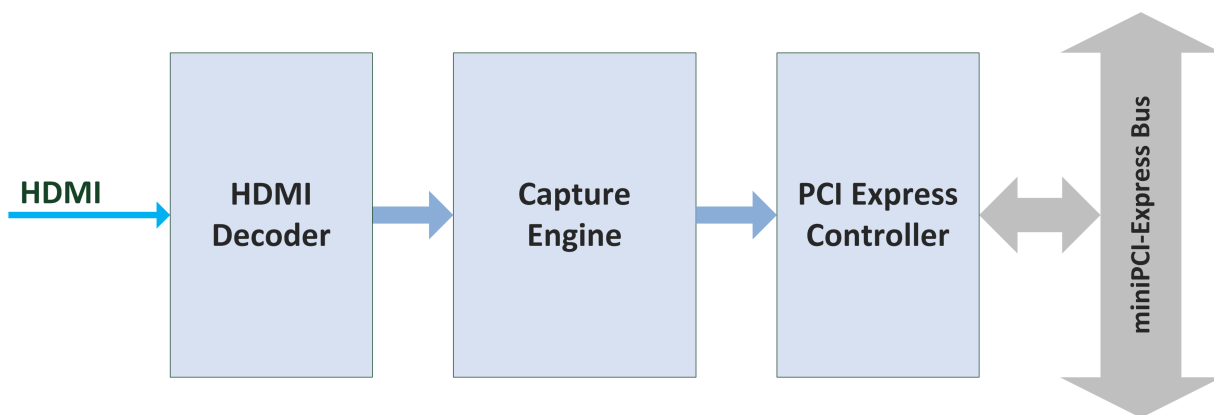
Operating temp 0°C to 60°C  
Operating temp -40°C to +85°C (extended temp option)  
Standard Full Height Mini PCI Express form factor

### Software Drivers

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

### Ordering Information

**nanoGrabber-HD-HDMI**  
Video Capture Controller (0 to 60°C)  
**nanoGrabber-HD-HDMI-EXT**  
Video Capture Controller (-40°C to +85°C)



**nanoGrabber-HD-HDMI Functional Diagram**

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