

# nanoGrabber-HD-RGB/STANAG

HD RGB Video Frame Grabber for miniPCI-Express



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The nanoGrabber-HD-RGB/STANAG is a high performance, high definition, raw video framegrabber miniPCI-Express card. The nanoGrabber-HD-RGB/STANAG provides a powerful and flexible solution for capturing analog RGB HD sources for local system display or software analysis and processing. The small form factor of the nanoGrabber-RGB/STANAG makes it ideal for a wide range of embedded applications in the most demanding environments.



The nanoGrabber-HD-RGB/STANAG can capture from a wide range of analog RGB video sources. VGA, RG<sub>s</sub>B (sync-on-green) and Stanag3350 sources can all be captured. The flexible capture engine supports a wide range of input 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-RGB/STANAG 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  
VGA, RG<sub>s</sub>B  
And  
Stanag3350  
video sources

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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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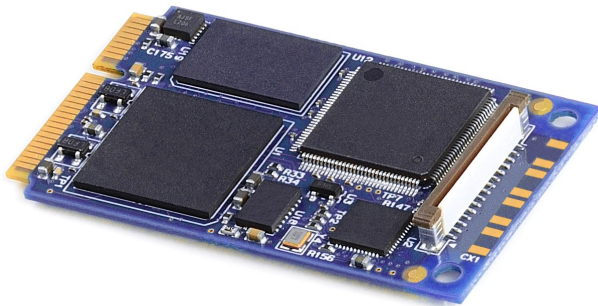
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*Image is for illustrative purposes only.  
Please refer to product description*

Windows

DirectShow

and

Linux V4L2

support

## Features

- 1x Analog HD RGB input
- Flexible capture resolution up to 1080p30/1080i60
- Capture from RGB, RGsB (sync-on-green), Stanag3350
- 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

High definition Analog video input from:  
RGB (Sync on Green)  
Stanage3350  
VGA (separate Hsync, Vsync)

### Video Input Resolutions

Standard resolutions supported include  
1080p30, 1080i60, 720p60, 720i60  
VGA, SVGA, XGA, SXGA

### 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

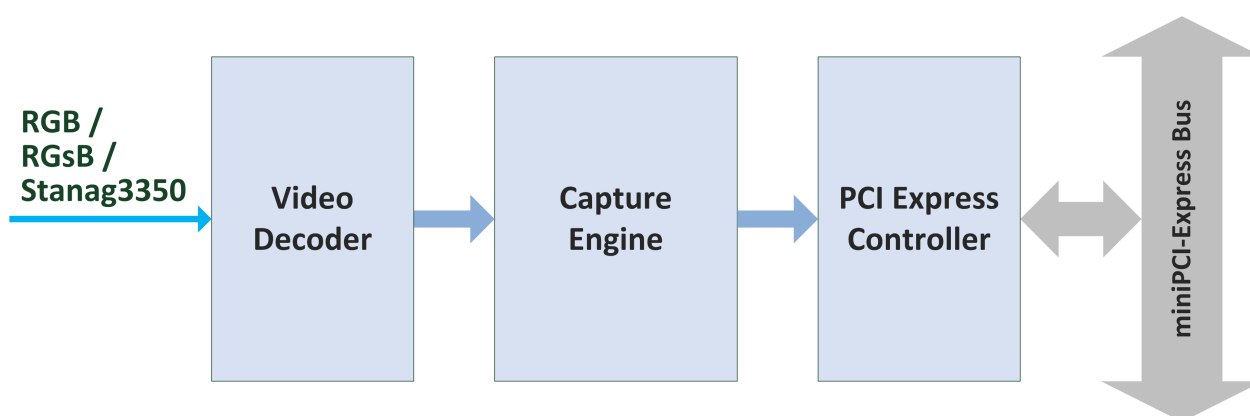
Operating temp 0°C to 60°C  
Operating temp -40°C to +85°C (extended temp option)  
Standard Full Height Mini PCI Express form factor

### Software Drivers

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

### Ordering Information

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



**nanoGrabber-HD-RGB/STANAG Functional Diagram**

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