

# HDGrabberX-RGB/STANAG

PCIe/104 RGB Video Frame Grabber



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The HDGrabberX-RGB/STANAG is a high-performance, high definition, raw video frame grabber on a single PCIe/104 card. The HDGrabberX-RGB/STANAG provides a powerful and flexible solution for capturing HD analog RGB video for local system display or software analysis and processing. The PCIe/104 module is ideal for demanding applications in Transportation, Military, Communications and Energy industries.



The HDGrabberX-RGB/STANAG supports real-time video capture at up to 1080p30 from VGA, RGsB (sync on green) and STANAG3350 sources. The flexible capture engine supports other common HD 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 HDGrabberX-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  
RGB / RGsB /  
STANAG3350  
at up to  
1080p30



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

## Applications

STANAG Mission recorder  
High performance image capture  
Vehicle-based Video Capture  
Real-time Situational Awareness  
Law Enforcement  
Crime Scene Recording  
Remote Video Surveillance  
Asset Monitoring  
Video Acquisition and Analytics

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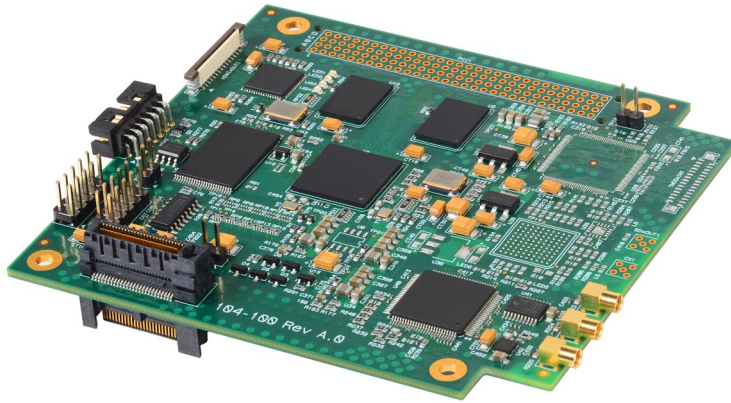
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**HDGrabberX-RGB/STANAG**

Windows  
DirectShow  
and  
Linux V4L2  
support

## Features

- Live RGB video input
- Capture from RGB, RGSB (Sync on Green), Stanag3350 source
- Flexible capture resolution up to 1080p30/1080i60
- Windows DirectShow/DirectDraw support
- Linux Video4Linux support
- Drivers for Windows, Linux
- PCIe/104 form factor (OneBank)
- Low Power Operation

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### Host Interface

Single x1 PCI Express Link using PCIe/104 OneBank™ connector  
 PCIe Gen 2.0  
 Live video capture to display, memory or disk

### Video Input

High definition Analog video input  
 Input from:  
 RGSB (Sync-on-Green)  
 Stanag3350

### Video Input Resolutions

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

### Video Capture Formats

YCbCr 4:2:0

### Miscellaneous

Operating temp 0°C to 60°C  
 Operating temp -40°C to +85°C (extended temp option)  
 Standard 3.6 x 3.8in PCIe104 form factor  
 PCI-104 pass-through (option)

### System Requirements

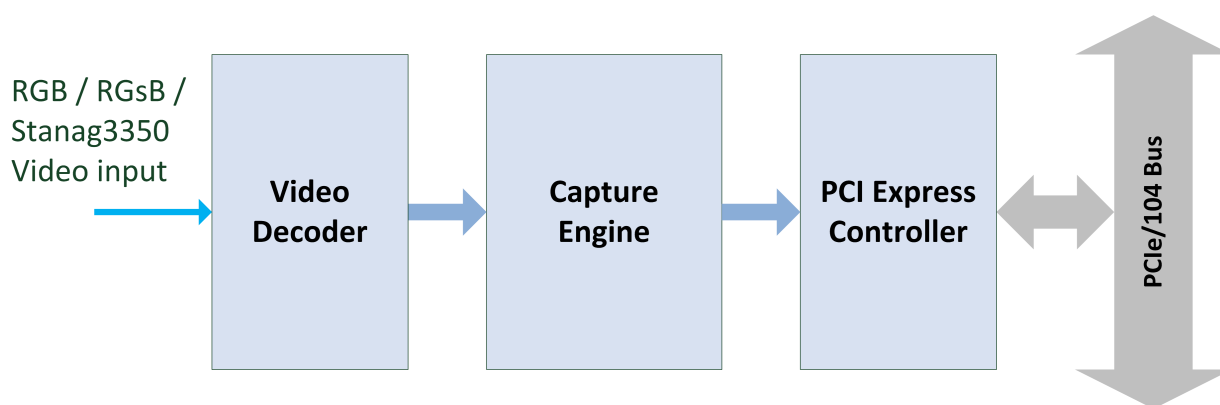
x86 PC-Compatible with mini PCI Express socket  
 PCI VGA Display (if Video Preview to host is required)

### Software Drivers

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

### Ordering Information

<b>HDGrabberX-RGB</b>	Video Capture Controller (0 to 60°C)
<b>HDGrabberX-RGB-EXT</b>	Video Capture Controller (-40°C to +85°C)



**HDGrabberX-RGB/STANAG Functional Diagram**

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