

# HDGrabberX-HDMI

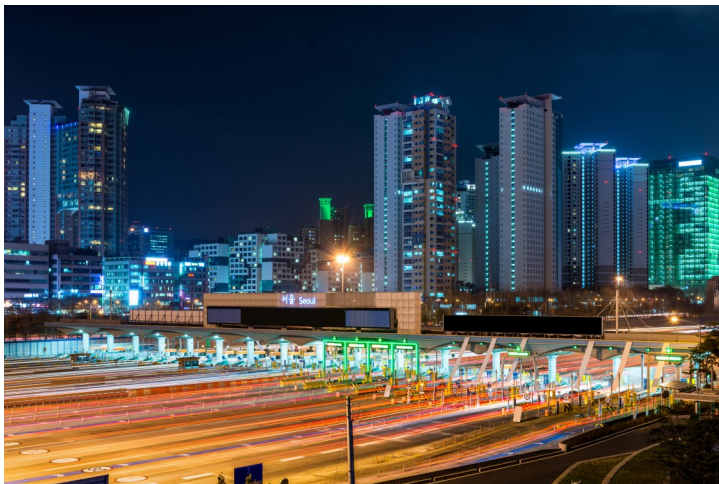
PCIe/104 HDMI/DVI Video Frame Grabber



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The HDGrabberX-HDMI is a high-performance, high definition, raw video framegrabber on a single PCIe/104 card. The HDGrabberX-HDMI provides a powerful and flexible solution for capturing HDMI or DVI digital video for local system display or software analysis and processing.



The HDGrabberX-HDMI supports real-time video capture at Full HD resolution at 30fps (1080p30). The flexible capture engine also supports other common HDMI/DVI resolutions allowing data to be captured from a wide range of sources. The captured video data can be streamed continuously to system memory or disk for either immediate local display or further processing.

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

**Preliminary Information (Rev A.01)**  
Subject to change without notification

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Raw video capture  
from  
HDMI  
at up to  
1080p30



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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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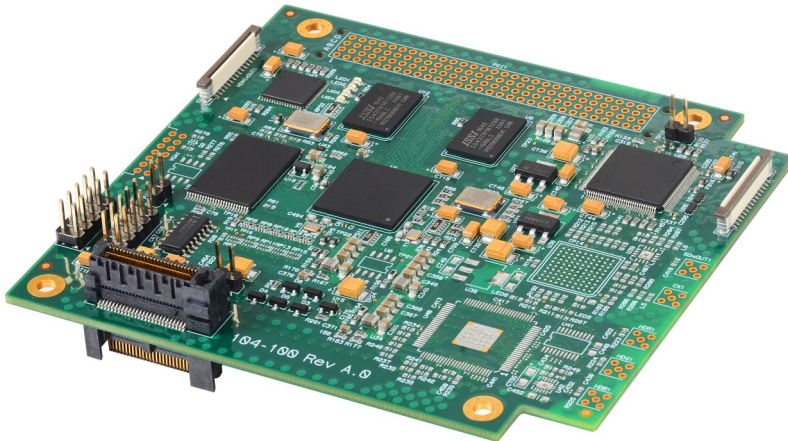
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**HDGrabberX-HDMI**

Windows

DirectShow

and

Linux V4L2

support

## Features

Live HDMI/DVI video input

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

Digital HDMI/DVI 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 4:2:0

### Miscellaneous

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

### System Requirements

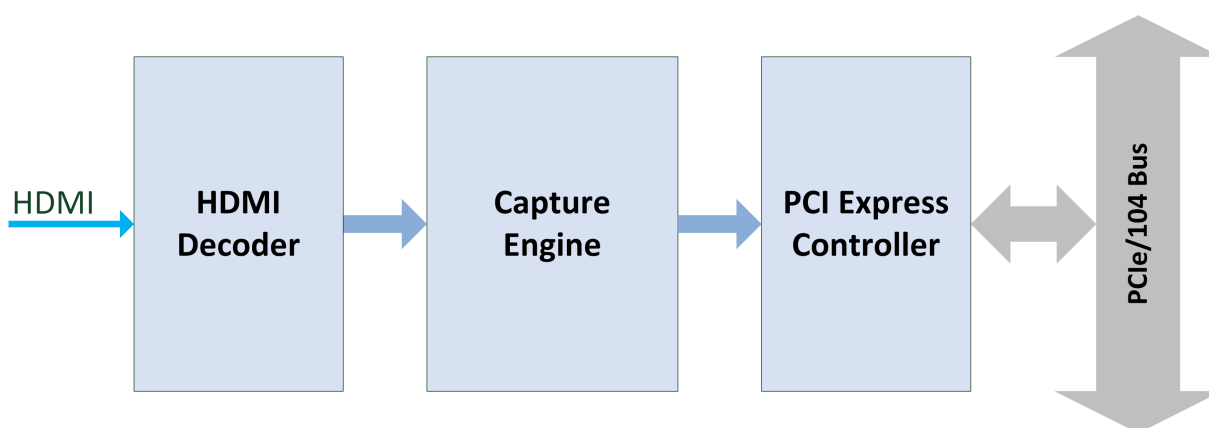
x86 PC-Compatible with PCIe/104 expansion  
 PCI VGA Display (if Video Preview to host is required)

### Software Drivers

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

### Ordering Information

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



**HDGrabberX-HDMI Functional Diagram**

### Preliminary Information (Rev A.01)

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