

HDGrabberX-SDI

PCIe/104 HD-SDI Video Frame Grabber



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The HDGrabberX-SDI is a high-performance, high definition, raw video framegrabber on a single PCIe/104 card. The HDGrabberX-SDI provides a powerful and flexible solution for capturing HD-SDI digital video for local system display or software analysis and processing. The small form factor of the nanoGrabber-HD-SDI makes it ideal for embedded Situational Awareness systems in the most demanding environment.



The HDGrabberX-SDI supports real-time video capture at up to 1080p30. The flexible capture engine also supports other common HD-SDI 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-SDI is supported by drivers and example applications for Windows and Linux.

Preliminary Information (Rev A.00)

Subject to change without notification

Advanced Micro Peripherals Ltd
Cambridge, CB6 2HY, England
Tel (+44) 1353 659500
Fax (+44) 1353 659600
sales@ampitd.com
<http://www.ampitd.com>

Advanced Micro Peripherals Inc
New York, NY10016, USA
Tel (+1) 212 951 7205
Fax (+1) 212 951 7206
sales@amp-usa.com
<http://www.amp-usa.com>

Raw video capture
from
HD-SDI
at up to
1080p30



HDGrabberX-SDI

PCIe/104 HD-SDI Video Frame Grabber



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS



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

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

Advanced Micro Peripherals Ltd
Cambridge, CB6 2HY, England
Tel (+44) 1353 659500
Fax (+44) 1353 659600
sales@ampitd.com
<http://www.ampitd.com>

Advanced Micro Peripherals Inc
New York, NY10016, USA
Tel (+1) 212 951 7205
Fax (+1) 212 951 7206
sales@amp-usa.com
<http://www.amp-usa.com>



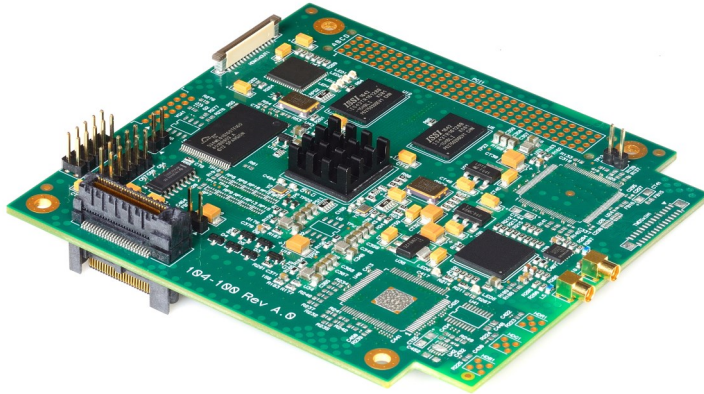
HDGrabberX-SDI

PCIe/104 HD-SDI Video Frame Grabber



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS



HDGrabberX-SDI

Windows

DirectShow

and

Linux V4L2

support

Features

Live HD-SDI 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

Advanced Micro Peripherals Ltd
Cambridge, CB6 2HY, England
Tel (+44) 1353 659500
Fax (+44) 1353 659600
sales@ampitd.com
<http://www.ampitd.com>

Advanced Micro Peripherals Inc
New York, NY10016, USA
Tel (+1) 212 951 7205
Fax (+1) 212 951 7206
sales@amp-usa.com
<http://www.amp-usa.com>



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 HD-SDI input

Video Input Resolutions

Flexible capture at up to 1080p30
 Supports common HD-SDI 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

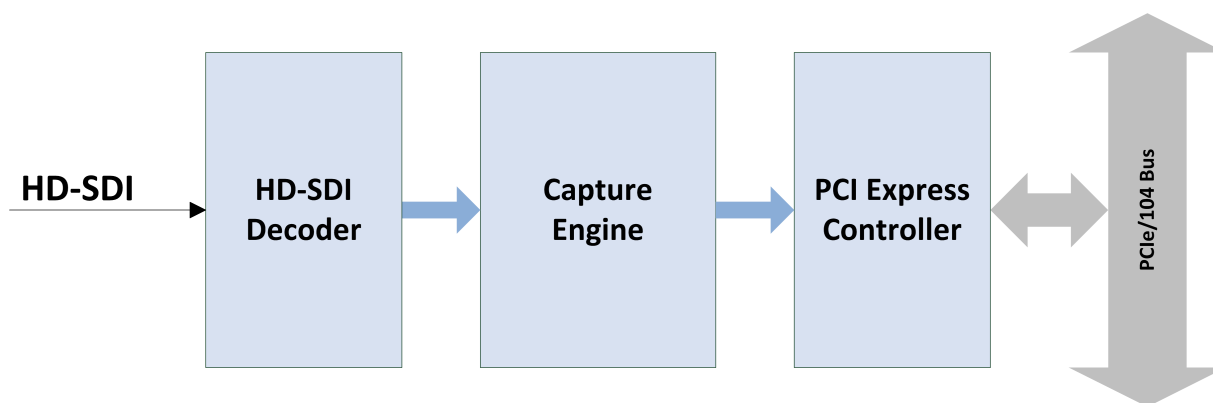
x86 PC-Compatible with mini PCI Express socket
 PCI VGA Display (if Video Preview to host is required)

Software Drivers

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

Ordering Information

HDGrabberX-SDI	Video Capture Controller (0 to 60°C)
HDGrabberX-SDI-EXT	Video Capture Controller (-40°C to +85°C)



HDGrabberX-SDI Functional Diagram

Preliminary Information (Rev A.00)

Subject to change without notification

