

nanoGrabber-HD-SDI

HD-SDI Video Frame Grabber for Mini PCI Express



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The nanoGrabber-HD-SDI is a high-performance, high definition, raw video framegrabber on a single Mini PCI Express card. The nanoGrabber-HD-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 nanoGrabber-HD-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 nanoGrabber-HD-SDI is supported by drivers and example applications for Windows and Linux.

Rev A.01

Subject to change without notification

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Raw video capture

from

HD-SDI

at up to

1080p30



PC/104

Embedded PC Modules

nanoGrabber-HD-SDI

HD-SDI Video Frame Grabber for Mini PCI Express



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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

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PC/104

Embedded PC Modules

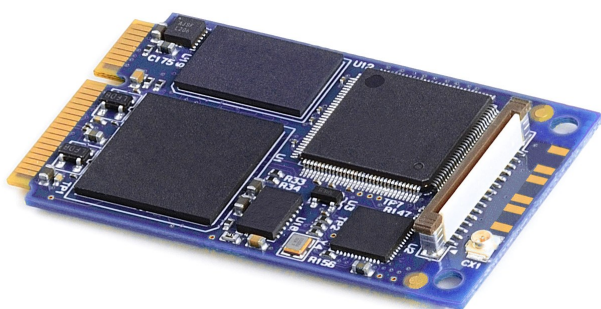
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nanoGrabber-HD-SDI

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
- Compact miniPCI-express form factor
- Low Power Operation

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PC/104

Embedded PC Modules

Mini PCI Express Bus Interface

Full height Mini PCI Express card
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

System Requirements

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

Miscellaneous

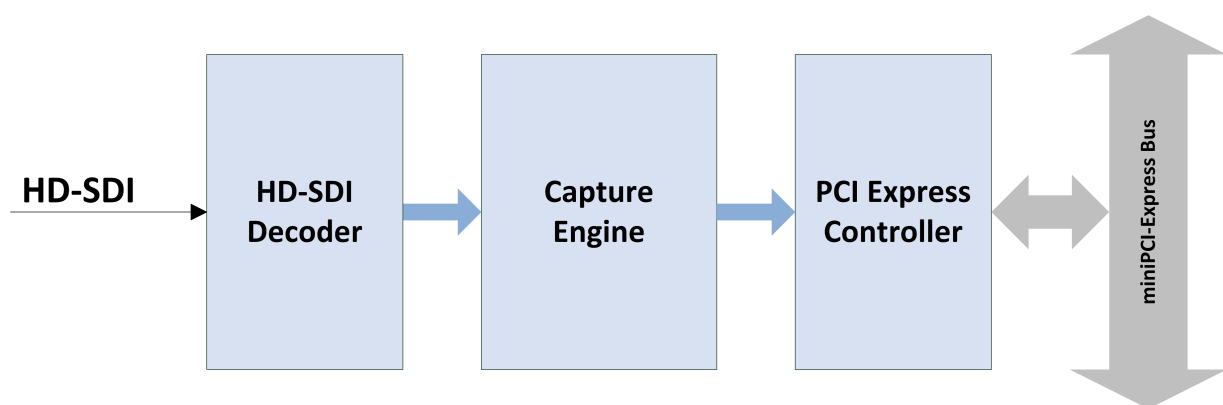
Operating temp 0°C to 60°C
Operating temp -40°C to +85°C (extended temp option)
Standard Full Height Mini PCI Express form factor

Software Drivers

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

Ordering Information

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



nanoGrabber-HD-SDI Functional Diagram

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