

nanoH264-HD-HDMI

DVI/HDMI H.264 Video Encoder for miniPCI-express



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The nanoH264-HD-HDMI is an intelligent high definition video recording solution that accepts HDMI/DVI input at up to 1080p30 and encodes it to the H.264 video encoding standard. The miniPCI-express solution is ideal for embedded applications in Transportation, Military, Communications, mining and Energy industries.



In addition to capturing video, the nanoH264-HD-HDMI can capture stereo audio data embedded in the HDMI input source. The video and audio are synchronized and transferred to the host system over the miniPCIe bus.

The nanoH264-HD-HDMI is supported by comprehensive SDKs that minimize development risk and shorten time-to-market for applications in video streaming, recording, or routing. The SDKs are available for popular operating systems such as Windows and Linux.

PRELIMINARY INFORMATION (Rev A.00)

Subject to change without notification

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Real-time
transmission of
high quality
video
and
audio



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Photo credit: U.S. Government

Applications

Solid-State Digital Video Server

Vehicle-based Video Codec

Law Enforcement

Crime Scene Recording

Remote Video Surveillance

Multi-camera Security Application

Asset Monitoring

Traffic Monitoring and Control

Video Acquisition and Analytics

Aerial
Surveillance,
Mission
Recording
&
Border
Protection

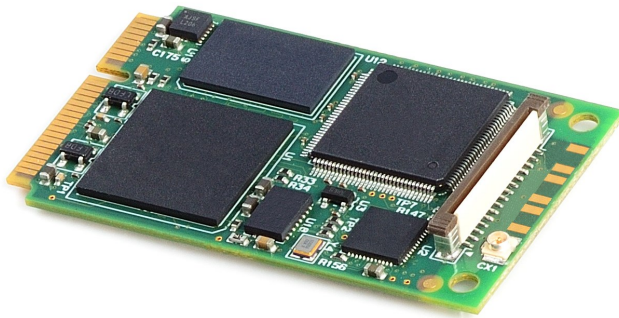
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*Image is for illustrative purposes only.
Please refer to product description*

Features

- 1x HDMI input up to 1080p30
- Real-time HD H.264 encode at up to 1080p30
- Stereo audio capture from HDMI
- Super Low Power operation (less than 4W)
- Very small footprint miniPCI-express form factor

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Ideally suited to
the demanding
applications, space
requirements and
environmental
conditions of
Military,
Transportation,
Mining and
Energy Industries



HDMI Video Input

Input from HDMI/DVI sources

Video Capture Resolutions

Flexible capture up to 1080p30

Audio Input

Embedded audio captured from HDMI input
Provides audio/video synchronisation

H.264 Video Encoding

ITU-T H.264 (ISO/IEC 14496-10), supported profiles:
Baseline profile,
Main profile (I,P frame coding only)
High profile (I, P frame coding only) at level 4.1
Up to 1080p30 encode
CAVLC and CABAC coding
Supports Variable Bit Rate (VBR)
Supports Constant Bit Rate (CBR)

JPEG Encoder

JPEG (ISO/IEC 10918-1)
Baseline JPEG with JFIF support

Miscellaneous

Standard full height miniPCI-Express form factor
Operating temp 0°C to 60°C
Operating temp -40°C to +85°C (extended temp option)

Software Drivers

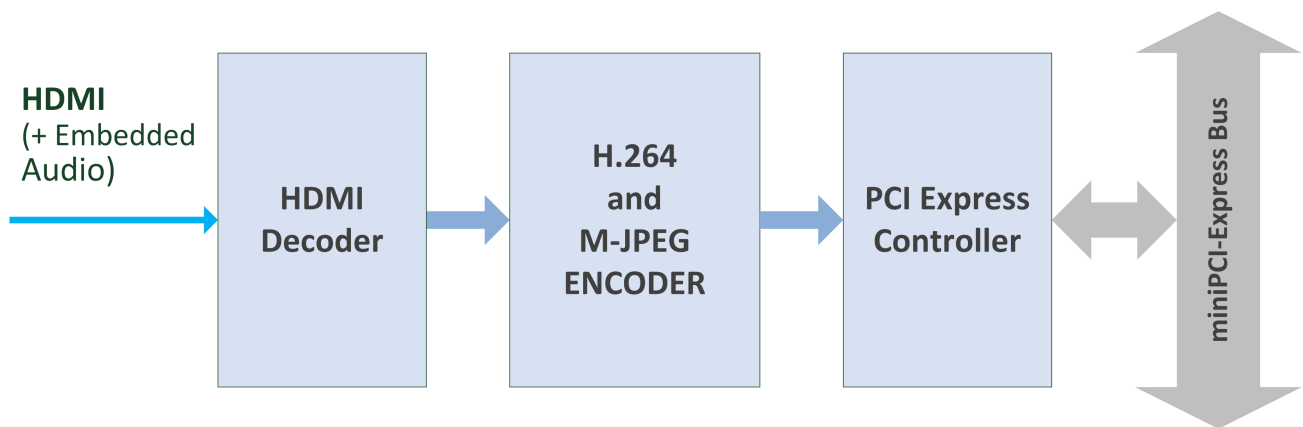
Drivers for Windows and Linux (other OS by request)
Sample video recording application in C/C++ source code

Related Products

nanoH264-HD-VStream RTSP Video Streaming SDK

Ordering Information

nanoH264-HD-HDMI H.264 Video Codec (0 to 60°C)
nanoH264-HD-HDMI-Ext H.264 Video Codec (-40°C to +85°C)



nanoH264-HD-HDMI Functional Diagram

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