

nanoH264-HD-RGB/STANAG

HD Analog RGB H.264 Video Encoder for miniPCI-express



**Advanced Micro
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The nanoH264-HD-RGB/STANAG is an intelligent high definition video recording solution that accepts analog RGB HD 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.



The nanoH264-HD-RGB/STANAG can capture from a wide range of analog RGB video sources. VGA, RG_sB (sync on green) and Stanag3350 sources can all be captured, encoded and then transferred to the host system over the miniPCIe bus.

The nanoH264-HD-RGB/STANAG 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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Capture

and Encode

VGA, RG_sB

and

STANAG3350

video sources



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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

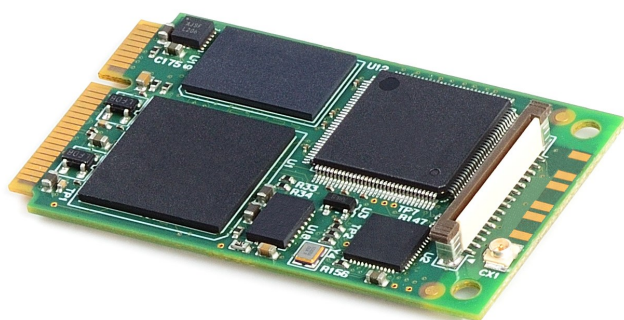
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*Image is for illustrative purposes only.
Please refer to product description*

Features

- 1x Analog HD RGB input
- Real-time HD H.264 encode at up to 1080p30
- Capture from RGB, RGsB (sync on green), Stanag3350
- 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



Video Input

Analog HD Input from:
 RGSB (sync-on-green)
 Stanag3350
 VGA (separate Hsync, Vsync)

Video Capture Resolutions

Standard resolutions supported include:
 1080p, 1080i, 720p, 720i
 VGA, SVGA, XGA, SXGA

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

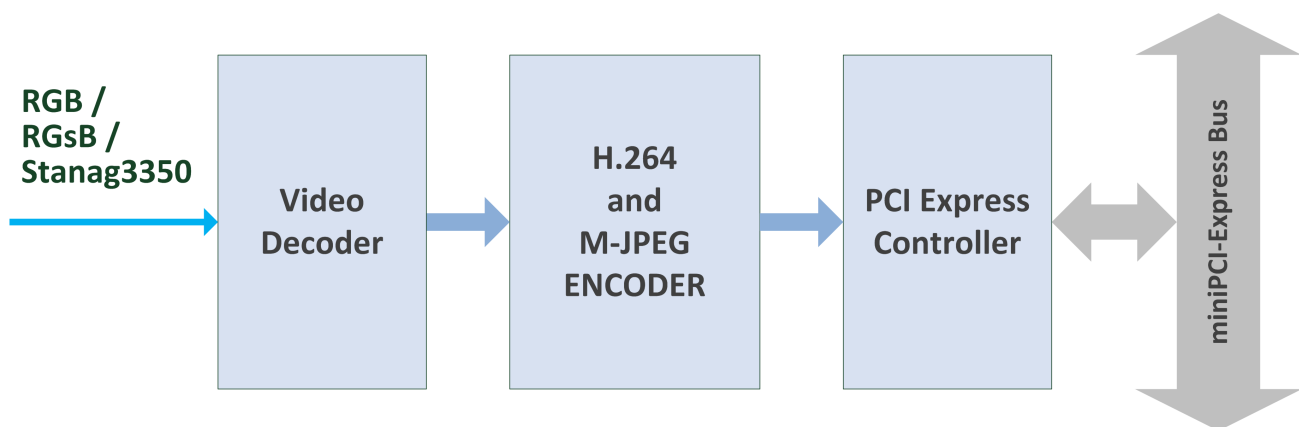
Drivers for Windows and Linux (other OS by request)
 Sample video recording application in C/C++ source code

Related Products

nanoH264-HD-VStream RTSP Video Streaming SDK

Ordering Information

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



nanoH264-HD Functional Diagram

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