

StreamCorder-HD-RGB/STANAG

Standalone RGB H.264 Video Recorder and Streamer



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The StreamCorder-HD-RGB/STANAG is an intelligent, stand-alone, High Definition H.264 video streaming solution. The StreamCorder-HD-RGB/STANAG captures a HD analog RGB input at up to 1280x1024 and encodes and streams over 100/1000MBit Ethernet. The single board solution is ideal for demanding applications in Military, Communications, Transportation, mining and Energy industries.



The StreamCorder-HD-RGB/STANAG can capture video from a wide range of analog RGB video sources. VGA, RGsB (sync-on-green) and Stanag3350 sources can all be captured, encoded and then streamed over the on-board Ethernet port. The flexible streaming engine can also save the encoded video direct to local storage for later retrieval.

The StreamCorder-HD-RGB/STANAG is an intelligent stand-alone device with it's own on-board CPU and does not require a host CPU or any driver or OS software. For mechanical convenience the module can be mounted on a PCIe104 stack without consuming host CPU resources.

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Subject to change without notification

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Real-time
capture, encode
and stream
VGA, RGsB
and
Stanag3350
video sources



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Real-time
transmission of
High quality video
and synchronized
metadata

Applications

Unmanned vehicles (UAV, ROV)
Rugged video recorders for marine, aviation
Situational Awareness
Remote Video Surveillance
Border Security
Traffic Monitoring and Control
Video Acquisition and Analytics
Solid state multi-channel video and sensor recorders

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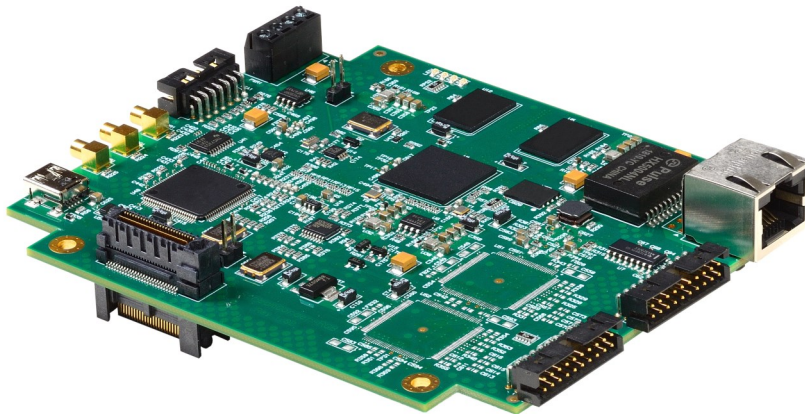
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Features

- 1x Analog RGB input up to 1280x1024
- Real-time HD H.264 encode at 1280x1024
- Capture from RGB, RGsB (sync-on-green), Stanag3350
- Single board, capture, encode, stream solution
- Stand-alone operation
- USB 2.0 OTG support for extended local storage
- RS-485 port for simple control of recording
- Low power operation for long endurance
- Operating system neutral
- Standard PCIe/104 mechanical form factor

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

Analog Video Input

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

Video Capture resolutions

Standard resolutions supported include:
 VGA, SVGA, XGA, SXGA,
 HD 720

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 1080p60 encode
 CAVLC and CABAC coding
 Supports Variable Bit Rate (VBR)
 Supports Constant Bit Rate (CBR)

JPEG Encoding

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

Network interface

100/1000MBit Ethernet

Mechanical

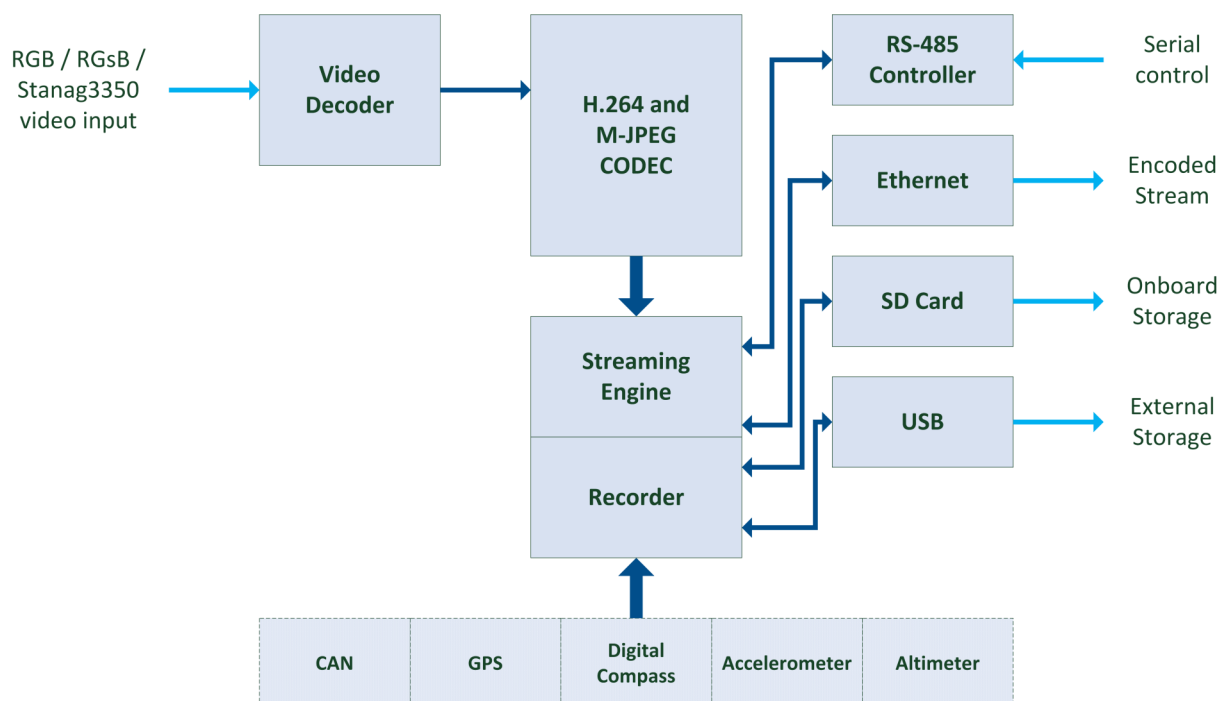
Intelligent stand-alone module, does not require host computer
 Standard 3.6 x 3.8in PCIe/104 form factor
 Mechanical mounting for PCIe104 stack
 Operating temp -40°C to +85°C

Power

Single +5V supply
 Max power consumption < 4W

Ordering Information

STREAMCORDER-HD-RGB-EXT
 H.264 HD RGB Video streamer (-40°C to +85°C)

**StreamCorder-HD-RGB/STANAG Functional Diagram**