

HDCorder-RGB/STANAG

CompactPCI-Serial RGB H.264 Video Encoder



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The HDCorder-RGB/STANAG is an intelligent high definition video recording solution that accepts analog RGB HD input at up to 1080p60 and encodes it to the H.264 video encoding standard. The CompactPCI-Serial board solution is ideal for demanding applications in Transportation, Military, Communications, mining and Energy industries.



The HDCorder-RGB/STANAG can capture video 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 CompactPCI serial bus.

The HDCorder-RGB/STANAG also features optional on-board redundant storage to compliment the host system storage and improve data integrity. This on-board cache acts as a rolling buffer, storing the most recently recorded data. This storage redundancy ensures no mission data is lost even when starved of host CPU attention in heavily loaded system configurations.

The HDCorder-RGB/STANAG is a standard 3U CompactPCI-serial module and supported for Linux and Windows.

Rev A.00- Preliminary Information
Subject to change without notification

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Capture
and Encode
VGA, RG_SB
and
Stanag3350
video sources



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Real-time
Distribution
of
high definition
video

Applications

Unmanned vehicles (UAV, ROV)

Mission Recorder

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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Features

1x Analog RGB input up to 1080p60

Real-time HD H.264 encode at 1080p60

Capture from RGB, RG_B (Sync on Green), Stanag3350 source

Low Power operation

Optional on-board redundant storage (up to 16GBytes)

Standard 3U CompactPCI-Serial mechanical form factor

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



Video Input ports

2x High definition Analog video input ports
 Analog HD from:
 RGB (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 1080p60 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

Additional Features

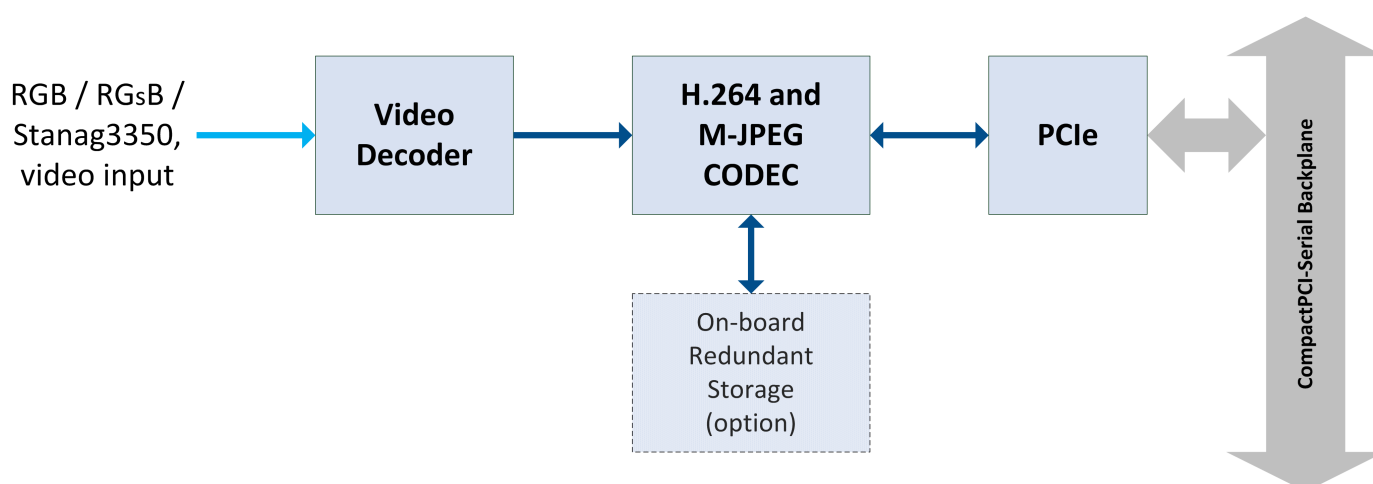
On-board redundant storage (option)

Mechanical

Standard 3U CompactPCI-Serial form factor.
 Operating temp 0°C to 60°C
 Operating temp -40°C to +85°C (extended temp option)

Ordering Information

HDCORDER-RGB
 H.264 HD Video Encoder (0 to 60°C)
HDCORDER-RGB-EXT
 H.264 HD Video Encoder (-40°C to +85°C)



HDCorder-RGB/Stanag Functional Diagram