

HDCorder-HDMI

CompactPCI-Serial DVI/HDMI H.264 Video Encoder



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

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



In addition to capturing video, the HDCorder-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 CompactPCI-serial bus.

The HDCorder-HDMI 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 recent 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-HDMI 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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Traffic
Management,
Border
protection,
&
Situational
Awareness



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Real-time
transmission of
high quality
video
and
audio

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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HDCorder-HDMI

Features

- 1x HDMI input up to 1080p60
- Real-time HD H.264 encode at 1080p60
- Stereo audio capture from HDMI
- Low Power operation
- Optional onboard 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
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Military,
Mining and
Energy Industries



HDMI Video Input

Flexible capture at up to 1080p60

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 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

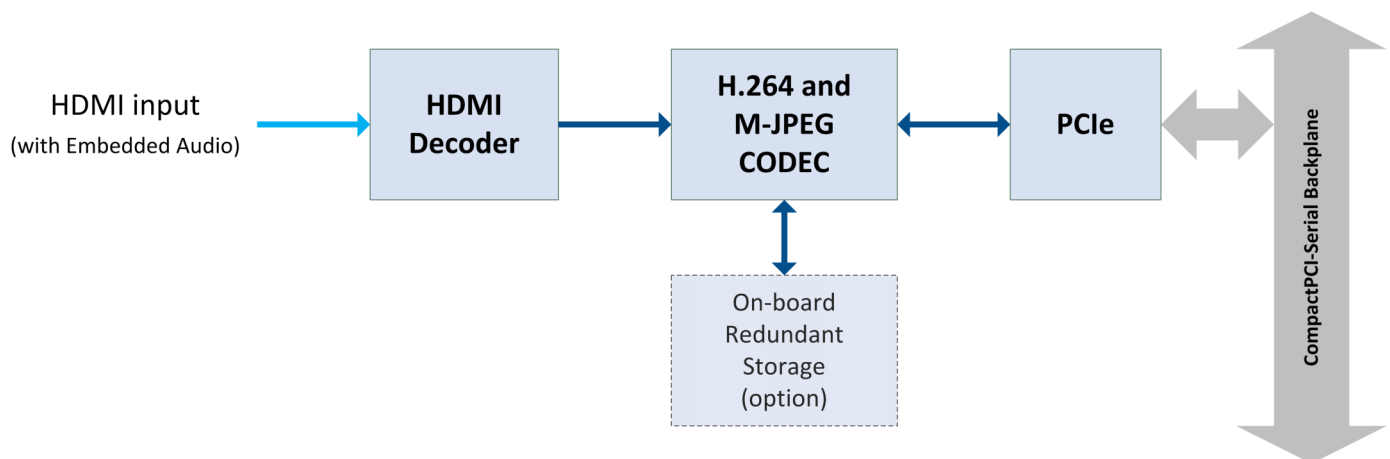
Standard 3U CompactPCI-Serial form factor.
Operating temp 0°C to 60°C
Operating temp -40°C to +85°C (extended temp option)

Ordering Information**HDCORDER-HDMI**

H.264 HD Video Streamer (0 to 60°C)

HDCORDER--HDMI-EXT

H.264 HD Video Streamer (-40°C to +85°C)



HDCorder-HDMI Functional Diagram

