

HDCorder-HDMI

CompactPCI-Serial DVI/HDMI H.264 Video Encoder

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.



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

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



HDCorder-HDMI



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THE EMBEDDED VIDEO EXPERTS

**Traffic
Management,
Border
protection,
&
Situational
Awareness**

**Real-time
transmission of
high quality
video
and
audio**

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



HDCorder-HDMI

Rev A.00

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Technical Specification

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)

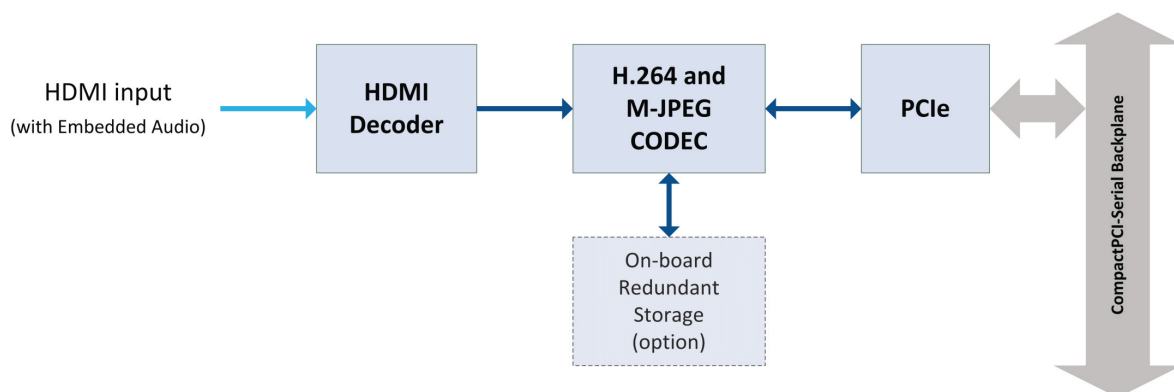
Ordering Information

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



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