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

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
**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)

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**HDCorder-HDMI Functional Diagram**

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