

HDAV1000

Companion interface card for H264-ULL-SD4



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The HDAV1000 is a companion interface card for the AMP H264-ULL-SD4 low latency H.264 encoder. The HDAV1000 expands the capabilities of the H264-ULL-SD4 supporting HDMI input and output, SDI input and output, and composite output to complement the composite input of the H264-ULL-SD4. The HDAV1000 also features an optional audio controller with dual stereo inputs and outputs.



The HDAV1000 is a single PCI/104 form factor board that plugs into the stack and is linked to the H264-ULL-SD4 by a couple of flex cables. In the standard configuration the board does not use any PCI resources.

The high performance H.264 video compression and efficient bus utilization allows up to four H264-ULL-SD4 / HDAV1000 board sets to be fitted in a PCI/104 system.

The HDAV1000 is supported by the standard SDK available for the H264-ULL-SD4 that minimize development risk and shorten time to market for applications requiring video recording or streaming.

PRELIMINARY INFORMATION (Rev A.01)

Subject to change without notification

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HDMI input/output,
SDI input/output,
Composite NTSC/PAL
output



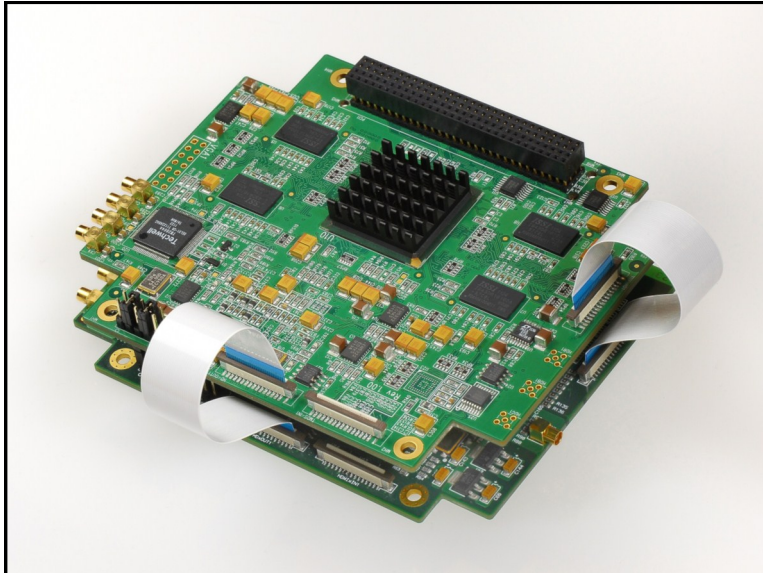
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H264-ULL-SD4 and HDAV1000 board stack

Applications

Remote moving platforms
Remotely guided vehicles
UAVs
Vehicle cameras
Remote video surveillance
Electronic news gathering
Multi-camera systems
Traffic monitoring and control
Solid-state digital video recorder
Intranet/Internet video streaming

Ideal for -

Surveillance

Remote Platform

Real-time control

Gaming

Simulation

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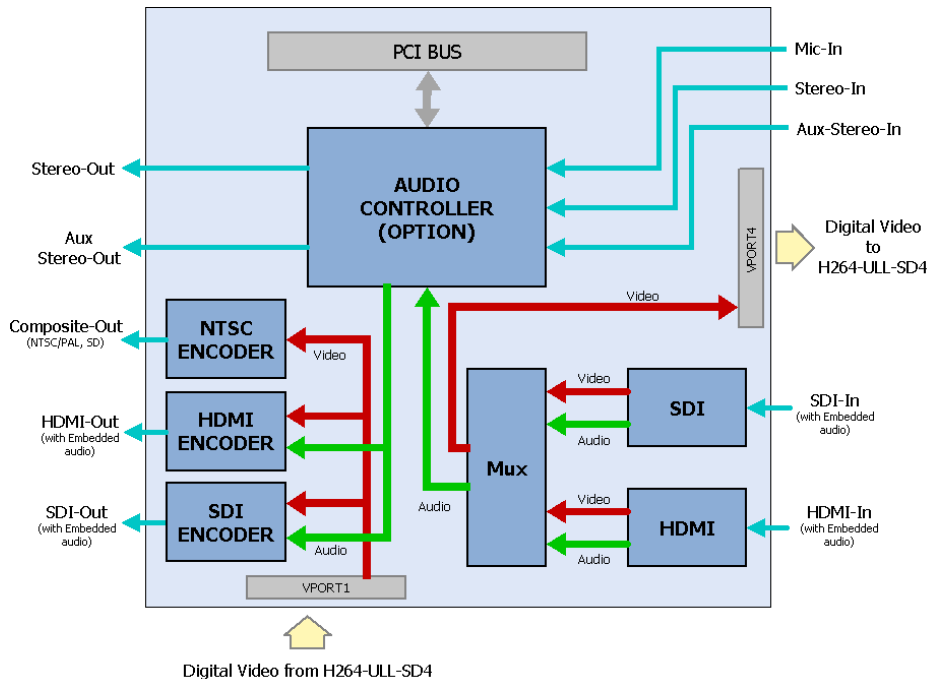
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HDAV1000 Block Diagram

Optional

High Quality

Audio capture
and playback

Features

HDMI input/output at up to 1080i60

SDI input/output at up to 1080i60

Composite NTSC/PAL video output

Optional PCI audio interface supporting:

- 2x Stereo outputs

- 2x Stereo inputs

- 1x Mic input

PCI/104 form factor

Drivers for WinXP-E and Linux

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Video input ports

- HDMI;
- Interlaced and progressive resolutions up to 1080i60, 1080i50.
SDI;
- Interlaced and progressive resolutions up to 1080i60, 1080i50.

Video output ports

- HDMI;
- Interlaced and progressive resolutions up to 1080i60, 1080i50.
SDI;
- Interlaced and progressive resolutions up to 1080i60, 1080i50.
Composite NTSC/PAL

Audio (option)

- AC97 2.2 audio codec
18-bit resolution on each channel
Sampling rate up to 48KHz

Inputs

- Dual analogue stereo line inputs
Microphone input

Outputs

- Dual analogue stereo line outputs.

PCI/104 Bus Interface

- Compliant with PCI Rev 2.1
132 MBytes/sec bandwidth at 33.33 MHz bus speed
Single +5 V supply

System Requirements

- x86 PC-Compatible PCI/104 Computer
Spare REQ/GNT on PCI/104 Bus (only for audio option)
3.3V signalling PCI/104 bus (only for audio option)

Mechanical

- Standard 3.6 x 3.8in PCI/104 form factor

Operational characteristics

- Operating temperature 0°C to 60°C
Extended temperature -40°C to +85°C (option)

Software

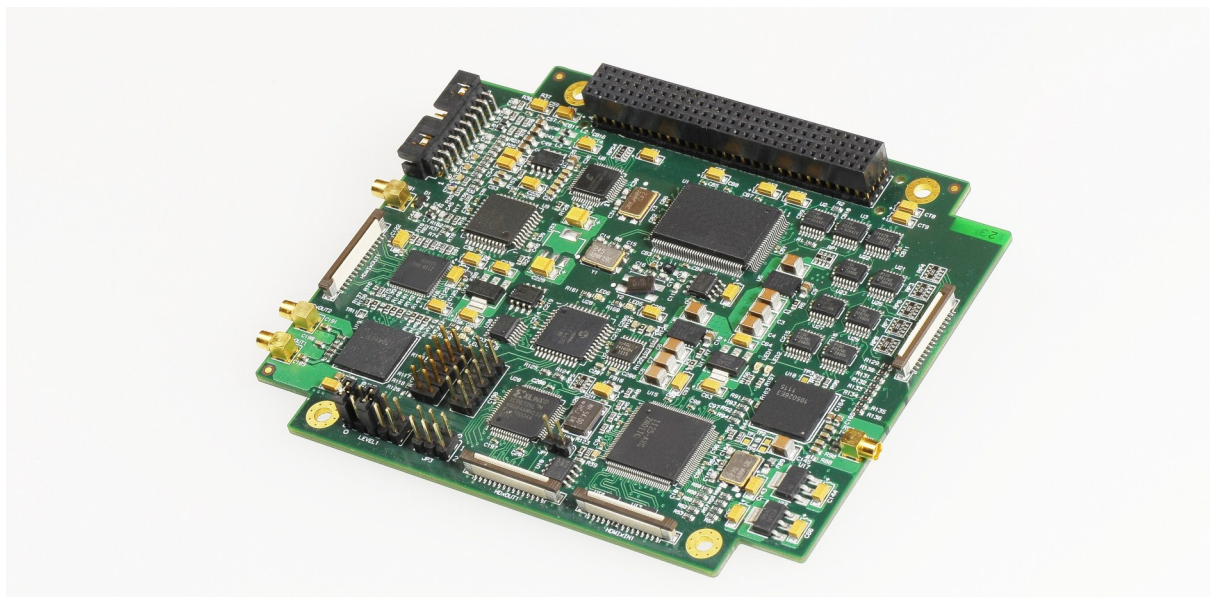
- Drivers for Win-XP, Linux
Comprehensive video recording SDK
Sample video recording application in C/C++ source code

Related Products

- H264-ULL-SD4 Ultra Low Latency H.264 encoder.

Ordering Information

- | | |
|----------------|--|
| HDAV1000 | Companion interface card (0 to 60°C) |
| HDAV1000-Ext | Companion interface card (-40°C to +85°C) |
| HDAV1000-A | Interface card with Audio (0 to 60°C) |
| HDAV1000-A-Ext | Interface card with Audio (-40°C to +85°C) |

**HDAV1000**