

### H.264 High Definition Video/Audio Acquisition Module



#### Applications

- Data acquisition systems
- Safety of flight telemetry
- System integration

#### Features

- Video and audio acquisition module for the MEDAU/MCDAU/MWDAU/MnACQ and MARM products
- Accepts 1 video input based on selection
  - DVI/HDMI
  - Composite Video
  - S-Video
  - RGB (VGA, SOG, Composite Sync)
- H.264/MPEG-4 AVC/MPEG-4 Part 10, Baseline Profile, up to 20 Mbps
- Time annotation with programmable screen location
- Resolution up to 1080p, capable of resolution decimation
- Output frame rate up to 30 f/s
- Accepts 1 audio input
  - Stereo audio – up to 4 Vp-p
  - Low level mono audio – up to 4 Vp-p
  - High level mono audio – up to 40 Vp-p
- Audio encoding options
  - MPEG Audio layer 2 (MP2)
  - MPEG Audio layer 3 (MP3)
  - Linear PCM
- Multiple modules can be placed within a single stack
- Provides embedded timestamp into video stream
- Adjustable brightness, contrast and hue
- Programmable using TTCWare™ software application

#### Description

The MVID-301D module set adds one channel of H.264 High Definition (HD) or Standard Definition (SD) video/audio acquisition capability to TTC's MEDAU/MCDAU/MWDAU/MnACQ/MARM airborne data acquisition units. The module provides H.264 video compression for any one of the video inputs. Effective video compression rate varies from 512Kbps to 20 Mbps. Input pictures are pre-processed with de-interlacing and adjustment of brightness, contrast and hue. Output frame rate can be decimated down to 1 frame per second, and output resolution can be re-sampled to lower. One mono (low or high level) or one stereo audio channel can be acquired. The compressed video and/or audio are multiplexed into MPEG-2 transport stream. The module also provides time annotation overlay with programmable positioning.

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#### MVID-301D Datasheet

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