

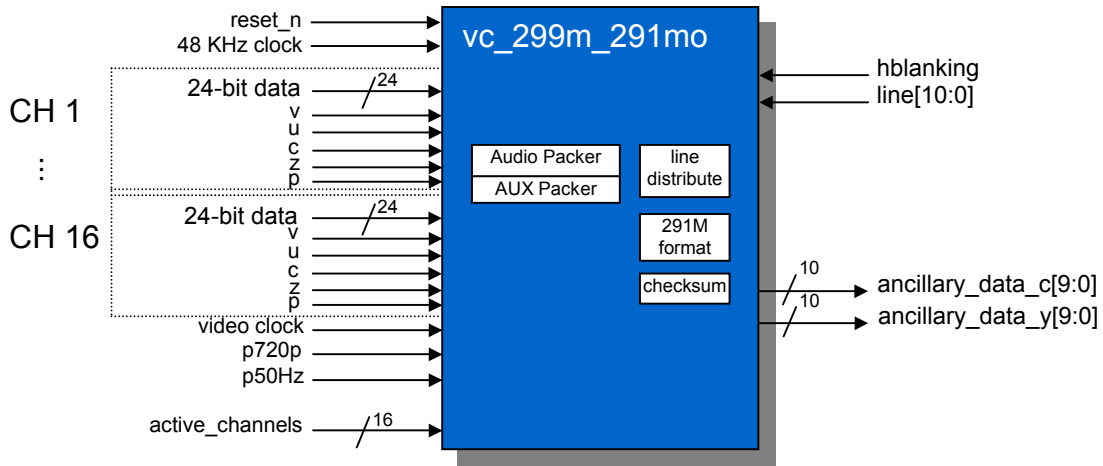


SMPTE 299M/291M Encoder: vc_299m_291mo

This Core Values™ encoder allows designs with up to sixteen 48 KHz 24-bit digital audio channels to embed the audio in the Horizontal Ancillary (HANC) area of a SMPTE 274M (1080i) or SMPTE 296M (720p) parallel stream.

FEATURES

- Encodes SMPTE 299M (HD Embedded Audio)
- Embeds up to sixteen 24-bit AES 48 KHz channels
- Creates SMPTE 291M packets for embedding
- Accepts hblanking signal and line count
- Embeds audio for 1080i and 720p HD video
- Linted and Verified Verilog 2001 Source Code
- Permanent Company License (not per-project)
- Targeting ASICs and Actel, Altera, Lattice and Xilinx FPGAs

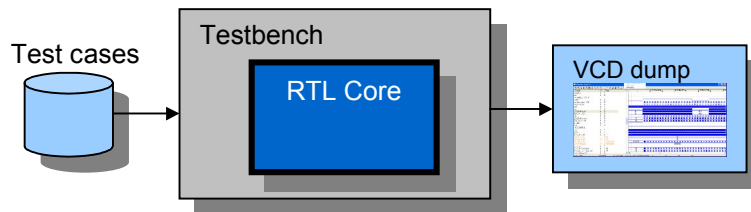


EXTERNAL REQUIREMENTS

- 48 KHz audio clock
- active-low reset_n synchronized to both clocks
- SMPTE 274M/296M encoder signaling

DELIVERABLES

- Synthesizable Verilog 2001 RTL Source Code
- Fast Verilog 2001 Testbench and Test cases
- VCD Functional Dump
- User Manual



APPLICATIONS

- Professional Television Cameras
- Professional Audio Processing Equipment
- Professional Recording Equipment
- Prosumer Electronics with Digital Embedded A/V