

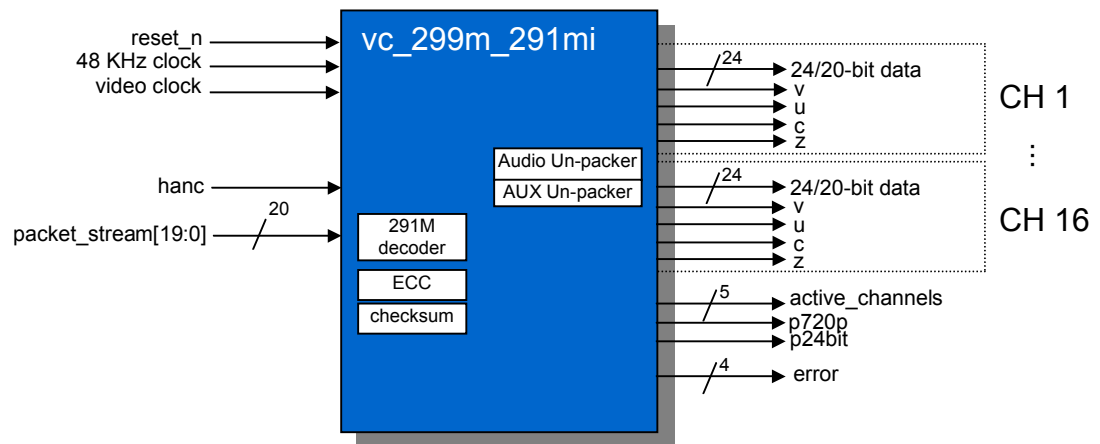


## SMPTE 299M/291M Decoder: vc\_299m\_291mi

This Core Values™ decoder allows designs to extract up to sixteen 48 KHz 24-bit digital audio channels from the Horizontal Ancillary (HANC) area of a SMPTE 274M/296M 20-bit parallel stream.

### FEATURES

- Decodes SMPTE 299M (HD Embedded Audio)
- Extracts up to sixteen AES 48 KHz channels
- Decodes SMPTE 291M packets
- Detects Parity, ECC and Checksum errors
- Accepts both SMPTE 274M (1080i) and SMPTE 296M (720p) streams (with PugMedia decoder)
- 24-bit or 20-bit Audio
- Detects SMPTE 291M deviations
- Linted and Verified Verilog 2001 Source Code
- Permanent Company License (not per-project)
- Targeting ASICs and Actel, Altera, Lattice and Xilinx FPGAs

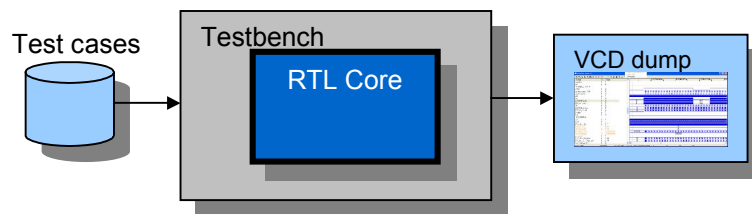


### EXTERNAL REQUIREMENTS

- 48 KHz clock synchronized with video clock
- SMPTE 274M/296M decoder

### DELIVERABLES

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



### APPLICATIONS

- Professional Recording Equipment
- Broadcast Compression Equipment
- Professional Audio Processing Equipment
- Prosumer Electronics with Digital Embedded A/V