



Case Study

Prototyping of a new Audio Standard

Design Scope

- Definition for the audio digital standard for control information communication through audio jack
- I2S and I2C based communication to the FPGA modules
- System Design, IP design, FPGA implementation
- System Verilog / UVM based Verification from scratch
- Driver development, firmware development, GUI development
- Demonstration of the prototype

Client

This program was done for a *Tier 1 Semiconductor Company*

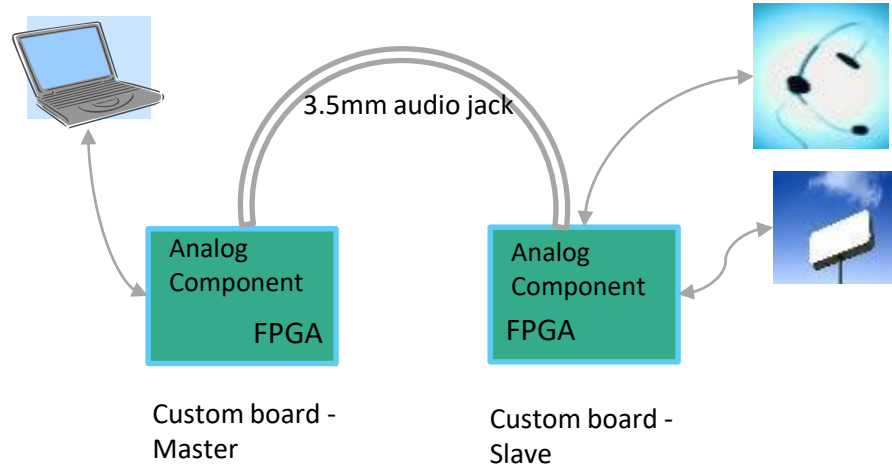
Tools

- SV-UVM, NCSIM, Xilinx

Highlights

Execution Highlights

- New audio standard definition
- RTL design and emulation
- Initial bring up with off-shelf boards
- Final bring up with custom board
- **Complete software development**
- Successful demonstration, on time delivery





THANK YOU



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