



PRODUCT ENGINEERING SOLUTIONS



VLSI/System Design

ASIC design for set-top box

CLIENT

A leader in industrial automation with its Headquarters in Japan

The challenge

The challenge was design of two modules for a System-on-Chip, which would form the core of the customer's pioneering set-top box architecture.



HOW WIPRO HELPED



One of the modules to be designed was a transport processor for the SoC - an approximately 560k gate design, capable of descrambling multiple formats and separate audio video and command packets. It could also playback the frames stored in the system RAM.

The second module was texture processor: a more than 600k gate design with most of the logic as random gates.

The Wipro team's contribution in this demanding project involved:

- Detailed design of each module
- Creation of RTL code for each module
- Creation of test cases and testing of each module
- Module-level synthesis using technology-specific libraries
- Client support during top-level integration, synthesis and verification

Business Benefits



Wipro's VLSI and system design group is committed to providing companies like these an unmatched combination of services in the area of IC design. Aggressive delivery schedules and high standards of quality and technical expertise are some of the challenges that give us an opportunity to demonstrate our commitment to customer success.

For further information, please contact:

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