market. In addition, developing the IP in-house would have cost us more than twice what we spent with Synopsys. "

~NWBenchmarked against a leading competitor, the DesignWare Logic Li

Business

Achronix Semiconductor Corporation is a fabless semiconductor corporation based in Santa Clara, California, offering high-end FPGA-based data acceleration solutions, designed to address high-performance, compute-intensive and real-time processing applications. Achronix is the only supplier to offer both high-performance, high-density standalone FPGAs and licensed eFPGA IP solutions. Achronix <u>Speedster</u>®7t FPGAs and <u>Speedcore™ eFPGA IP</u> offerings are further enhanced by the ready-to-use <u>VectorPath™ accelerator cards</u> targeting AI, machine learning, networking and data center applications. All Achronix products are fully supported by the <u>Achronix Tool Suite</u> which enables customers to quickly develop their own custom applications.

Challenges

- Design and deliver high-performance FPGAs on a 7nm process that addresses the fast-moving AI/ML, telecom and data center markets
- · Reduce design risk and optimize FPGAs for power, performance, and area
- Meet critical time-to-market objectives while under the pressures of bringing up a new team, using a new process node, and integrating leading-edge interfaces

DesignWare IP Solution

- Foundation IP: Embedded Memories, Logic Libraries, and Temperature Sensors
- PCIe 5.0 IP
- DDR4 PHY and controller IP

Benefits

- · Accelerated time-to-market by two to three months with high-quality DesignWare IP portfolio
- · High-quality PCI Express and DDR IP enabled low latency and high bandwidth
- · Rich set of logic library cells improved PPA over competitive offerings
- Broad portfolio of memory compliers, including dual-port, reduced power consumption
- •Selecting Synopsys DesignWare IP saved us two to three months in overall time to

considerably better area and an 8%mprovement in timing, which is significant for high-speed designs like ours. "

~Namit Varma, Senior Director, India Technology Center, Achronix

