

DSP Systems

Engineering Solutions for Science and Industry

DSP Systems specializes in developing engineering solutions to military, research, and industrial application problems. We will supply engineers and software specialists to complete your entire project or work with your personnel to assist with any part of your next development effort.

DSP Systems have the talent and experience needed to help with your next project from concept definition, circuit design, FPGA design and implementation, Software specification and coding, to final production.

We have worked closely with small and large companies alike to develop and produce custom data and communication systems for all kinds of applications. But, more importantly, we work as a team member with our customers to help engineer solutions for their particular problems from digital radio or vision systems to valve controllers and PCB handling equipment. Whether you are upgrading an existing system or planning a new one, we have the capabilities to help with the job.

Our Engineering Services Include

- Circuit design and analysis
- PCB layout, component placement, and route
- Produce bill-of-materials and order parts
- Prototype and/or production PCB fabrication
- Application and Driver Software
- Test, product support, and documentation



Xilinx Virtex-II Pro RF Development Board

Hardware Technologies

- High-performance processor and memory interface designs
- Standard and custom digital interface design
- Fibre Channel and Gigabit Ethernet serial interconnect systems
- High-speed parallel interconnect designs
- Very fast A-to-D and D-to-A designs
- All memory Types (SSRAM, SDRAM, RAMBUS, SRAM, FLASH)
- Mass storage systems

Software Technologies

- C, C++ application development
- Optimized assembly language routines
- DSP tools for Texas Instruments, ADI SHARC, ARM
- Real-Time operating system support
- Customized real-time and DSP applications
- PLD, FPGA, ASIC development and modeling

High-Speed Interconnects

DSP Systems specializes in the design and production of very-high speed interconnection systems. We have developed high performance parallel systems using VLDS and ECL signaling and serial connections using Fibre Channel and Gigabit Ethernet. Our engineers can help you design an interconnection system to meet your specific needs.



