

# Complete Signal Processing Engineering Services

Applied Signal Processing, Inc. (ASP) specializes in real-time control and analysis of acoustic signals, including speech, audio, and active sound and vibration control. ASP has extensive experience in developing digital signal processing (DSP) software for automotive applications. We can create unique prototype systems for our customers and then develop the DSP software and hardware for the final product.

## Live Data eXchange (LDX™)

This tool provides the ability to communicate between the PC and target DSP device during DSP execution, without halting the processor. It does not require a DSP emulator and allows access to all variables in the symbol table, without recompiling the DSP code.

## Custom System Solutions

ASP can provide hardware and software to engineer a custom solution for your application.

- DSP Application Software
- Hardware Design
- Windows Interface Applications

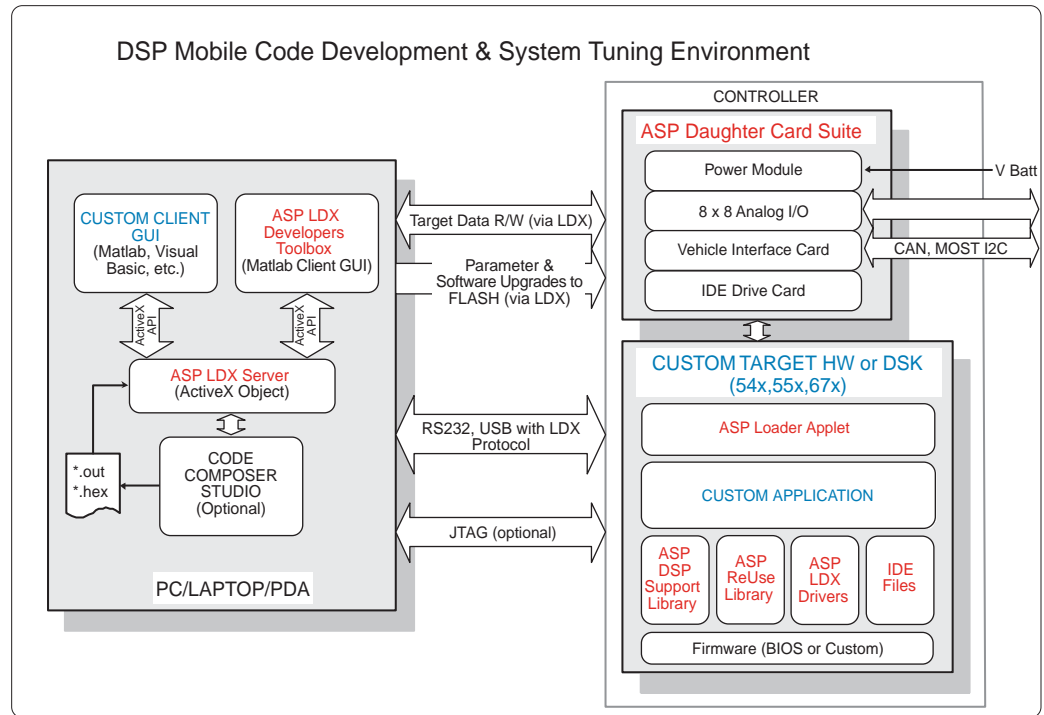
## TI DSP Boot Loader Framework

The Loader Applet is a small DSP program, which when integrated with ASP's LDX™ environment, provides robust bootloading of DSP Applications from a flash device. It allows users to upgrade a DSP application through a serial interface, without the need for a JTAG emulator connection.

## DSP Libraries

The libraries are C-callable, hand-written, assembly functions. We have libraries for the following Texas Instruments DSP families:

- C3x Floating Point
- C54x Fixed Point
- C55x Fixed Point
- C67x Floating Point



## Digital Hardware Design

- TI Fixed and Floating Point DSP Families
- PIC and Motorola Microcontrollers
- Real-time Data Acquisition Systems
- Multi-processor systems
- RS-232 and I<sup>2</sup>C Serial Interfacing

## Analog Hardware Design

- Electro-acoustic System Analysis
- Low-noise Microphone Preamplifiers and Interface Design
- A/D and D/A Mixed Signal Design
- Linear and PWM Audio Power Amplification Design

For More Information Contact Us At:

Applied Signal Processing, Inc.  
1981 N. Kollath Road  
Verona, WI 53593-8807

Phone: 608-441-9921  
Fax: 608-441-9924  
Email: [information@appliedsignalprocessing.com](mailto:information@appliedsignalprocessing.com)  
Web: [www.appliedsignalprocessing.com](http://www.appliedsignalprocessing.com)