

# ***ECU Calibration***

Designing an Electronic Control Unit (ECU) is only the beginning. The features in ECUs, such as Powertrain Control Units, are quickly becoming more complex and offering more features. Thousands of variables are now provided for the engineer to modify during the in-vehicle calibration phase, and fine tuning them is as complicated as it is critical.

Calibration tools significantly impact the efficiency and effectiveness of the ECU development process. These tools are typically comprised of PC-based software to perform the adjustment of the variables and an ECU hardware interface to provide the interface to the controller. Teams must be able to measure and time-align relationships of inputs and outputs and make real-time modifications.

## **Software Solution**

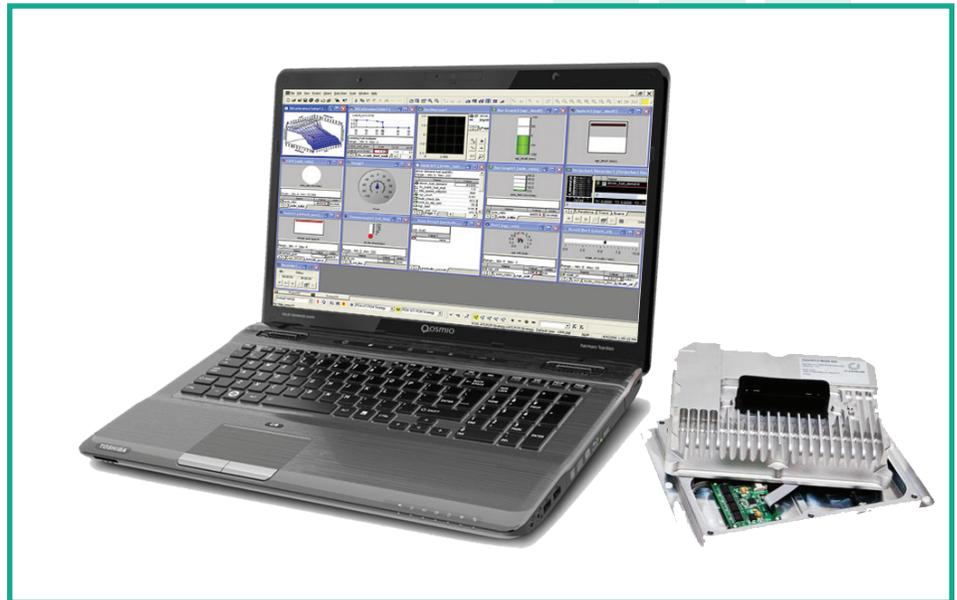
### **VISION Calibration and Data Acquisition Software**

A calibration tool needs to be efficient and flexible to meet the increasing complexity of the job. It must also be able to adjust to needs of individual calibrators, teams with different goals, increasing sophistication of systems, and changing equipment. From its inception, ATI's VISION Calibration and Data Acquisition Software was structured and developed with the ability to adapt the tool to each process.

### **Features**

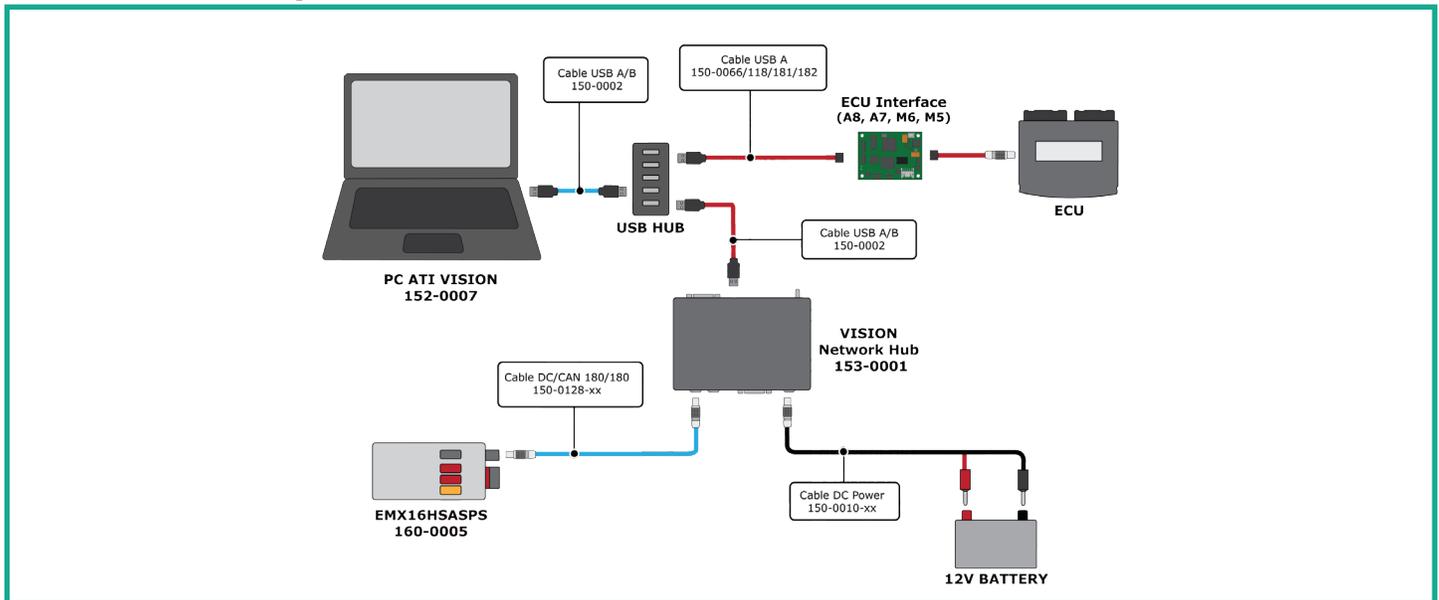
Important features include:

- Importing/exporting a wide range of file formats to allow teams or groups to share files and information
- Automation of repetitive tasks
- Providing multiple recorders with multiple triggers to run tests sequentially
- Flexibility to view data in the manner your application requires
- Collecting data from multiple sources into a synchronized data file
- Comparing calibration data

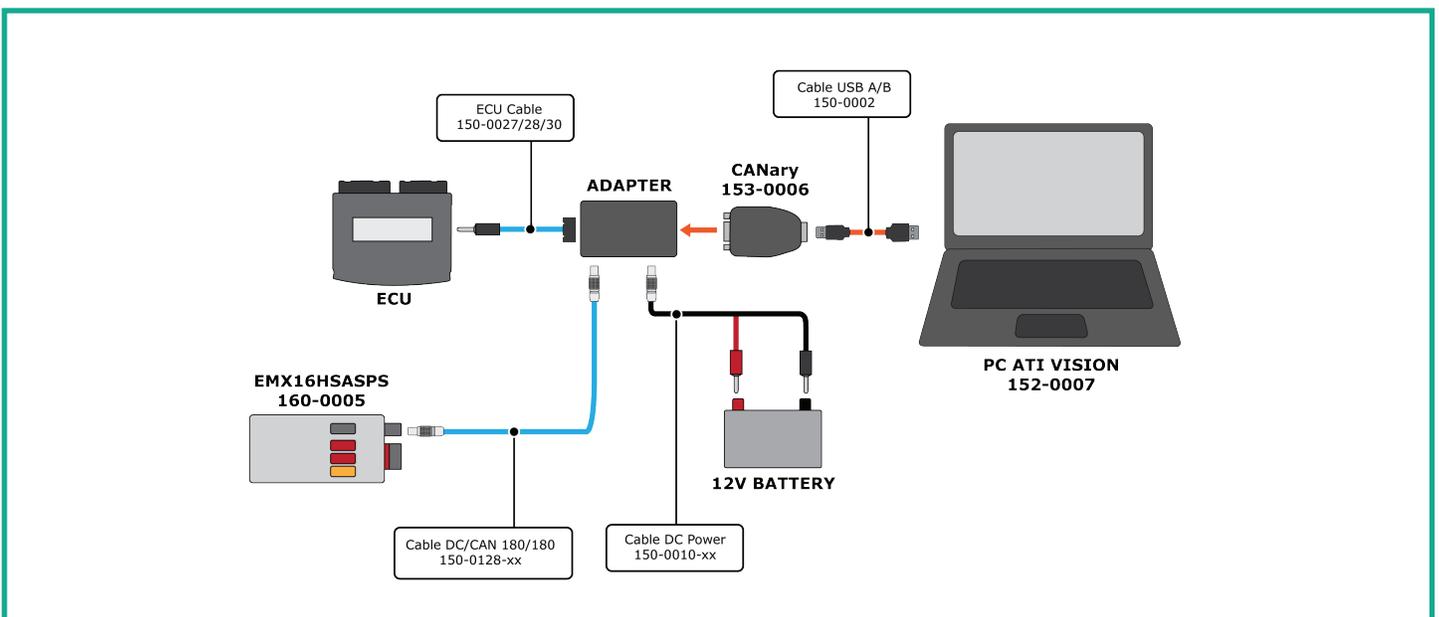




## Serial or Memory Emulation



## CAN Bus Interface Calibration



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