Precision & Performance

MCD Product Range & Corporate Overview
More than 25 years of advanced technology, successful collaborations and valued partnerships

ATI - Your Global Measurement, Calibration and Diagnostics Partner

With a quarter of a century of experience in developing cutting-edge software and hardware solutions for the measurement, calibration and diagnostics (MCD) sector, Accurate Technologies Inc.’s (ATI’s) extensive product portfolio is used globally by major OEMs and Tier One clients across a wide variety of automotive powertrain formats. ATI also manages numerous clients in the defense, marine and aerospace sectors, where the company’s innovative approach and high levels of customer service and support are vital factors in the firm’s success story.

Since the company was formed in 1992, its central objective has been the same - to create advanced, user-friendly products that enhance both productivity and efficiency for powertrain and vehicle manufacturers, testers, calibrators and suppliers. Headquartered in Novi, Michigan USA, customer support is provided globally by ATI subsidiary offices in China, France, Germany, India, Japan, Sweden, and the United Kingdom.

Combining unrivalled market knowledge and a complete understanding of what really matters to you, the customer, ATI is dedicated to delivering innovative value added MCD solutions, always with an emphasis on the ease of use.

Over 25 years of connecting innovation, products and people

Accurate Technologies Company Timeline

1992: Company Formed
1993: SmartTask
1994:Injector Test, Injector Modules
1995:SmartTach
1996:Injector/Coil Driver
1997:Vision 1.0 & VISION HUB
1998:EDAQ
1999:Data Acquisition
2000:1000
2001:UNITED KINGDOM
2002:Apollo Pro
2003:1500
2004:ED AQR ROM2CAN
2005:EMX
2006:JAPAN
2007:M5
2008:25 Years
2009:CanLab 1.0
2010:UNITED KINGDOM
2011:UNITED KINGDOM
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Opened in 2017
ATI’s new global headquarters in Novi, Michigan USA is five times larger than its previous facility.
ATI is a product-based company, but its business philosophy is that of a Service Organization.

Rather than selling a static product to everyone, ATI develops MCD software and hardware solutions that are designed from the outset to adapt to customer processes and requirements. ATI’s service-led approach is adopted by all aspects of the company’s activity; including new product development, worldwide employee recruitment to most importantly, its renowned customer service.

ATI Business Philosophy - An Independent Corporation
- All products are designed, developed and manufactured in house
- Privately-owned business, resulting in faster high-level decision making
- Focused product portfolio, dedicated to the MCD sector
- Open, transparent and straightforward business operating culture
- Diverse customer and partner base, both geographically and by sector activity

ATI Product Quality - Products exclusively manufactured at its US facility
- Comprehensive manufacturing processes using state-of-the-art equipment
- High product quality (less than 0.01% warranty returns)
- Production is co-located with engineering department for faster issue resolution
- Shorter lead times due to vertical integration
- Stringent supplier qualification

Partnerships are central to ATI’s business philosophy. Every customer, irrespective of size, is a potential long-term collaboration as they benefit from ATI’s ongoing support, training and software product updates.
ATI Product Portfolio

An integrated MCD toolchain

ATI's MCD portfolio embraces hardware, software and associated 3rd party products across an integrated toolchain designed to maximize productivity, efficiency and development capabilities for both ECU module and powertrain development.

**Software**

**VISION**
Is an integrated calibration and data acquisition tool that allows users to perform more than one function or test at a time. VISION can be tailored to collect, manage and analyze data in the manner and format that best fits individual needs. VISION can be programmed to simplify repetitive tasks and adapted to legacy systems or tools that customers already use.

**Test Cell**

**IGTM**
The Ignition Timing Meter is a precision timing measurement instrument designed for engine development and testing where ignition timing and cam timing measurement accuracy (steady state and transient) is important.

**SmartTach**
Reads any pulse input from a wide range of sources such as magnetic sensors, encoders, electronic control unit outputs or ignition coils.

**DAQ Hardware & I/O**

**EMX Data Acquisition Modules**
Rugged in-vehicle instrumentation products for accurate and reliable measurement and acquisition of external signals. These units provide precise measurement at a very competitive price per channel.

**DLX**
The unique DLX Datalogger integrates ECU connectivity, analog and thermocouple measurement and stand-alone data logging into one compact robust package.

**CANverter**
Collects analog or digital signals then converts the information into a CAN message onto the network (or vice versa).

**ECU Interfaces**

**ECU Interfaces**
In line with the latest in ECU developments, users can select CAN interfaces, serial interfaces or memory emulators for ECU calibration and data acquisition.

**CANary**
The CANary is a pocket-sized 2-channel CAN interface for ATI's VISION Calibration and Data Acquisition Software. It communicates via the Universal Serial Bus (USB) connection for calibration, and other CAN-based products.

**3rd Party Products**
ATI offers 3rd Party Products to complement its line of tools. From CAN Bus Interfaces and ECU solutions and data logging modules.

**Rapid Prototyping**
Hardware or software components can be prototyped throughout the development process with ATI's patented No-Hooks bypass technology.

**CANLab**
A complete solution for bus communication, data logging, and data analysis via industry standard network protocols such as controller Area network (CAN) including J1939 and local interconnect network (LIN).
VISION is an innovative, user-friendly, powerful, comprehensive software solution that is available in numerous versions incrementing in toolkit functionality. Depending on user case requirements VISION offers capabilities ranging from basic data acquisition to post-analysis, ECU calibration and ultimately the rapid prototyping of module functionality using patented No-Hooks technology.

VISION offers fully integrated calibration and data acquisition capabilities including signal collation from ECUs and external sources, plus measurement and the real-time calibration and modification of closed-loop control systems. In addition VISION time aligns data and facilitates the analysis of information, manages calibration changes and enables flashing of the ECU.

VISION now includes a ‘Remote Dashboard’ application which enables users to remotely view and monitor VISION on secondary displays including smartphones and tablets. Powerful and versatile, Remote Dashboard is also capable of automating and executing some common functions of the VISION software host environment.

Key VISION Software features include:
- ECU Flashing, Calibration and Rapid Prototyping packages
- Data Acquisition and Data Analysis packages
- Intuitive GUI design
- Powerful API and post processing features
- Model based calibration available

3D Calibration Tables and dial gauges are key graphical representations of calibration data and measurements available within VISION.
VISION Software Suite

VISIONview/measure
Customizable, easy-to-use

VISIONview is a customizable, yet easy to use tool for post-data analysis of recorded data. Essential elements of any data analysis tool include the ability to manipulate and view data in a way that highlights results, differences, and specific events. ATI's VISIONview enables comparisons, overlaying, and detection of data or events while easily handling data sets with 1000+ channel counts.

VISIONview's powerful post-data analysis features include the use of XY plots to graph one variable against another, and file overlays to view data from multiple files on the same graph. Use VISIONview's Calculated Channels to enhance information, layout templates to expedite setup of similar tasks or tests, and the convenient Recorder Catalog for recording management. Import/export in popular file formats (MATLAB, MDF, HDF and ASCII) including the ability to export a reduced data set for focused analysis.

VISIONview's key features include:
- Create multiple views of the same data set
- Create calculations based on recorded data
- Create templates for quick formatting of data
- Overlay recordings for comparison
- Export segments of recorded data

VISIONmeasure adds the ability to view data during collection from ATI's EMX DAQ devices. Collection and analysis are supplemented with a wide range of customizable display objects that enable viewing real-time data as it is acquired by ATI's range of data acquisition devices.

Select from a collection of customizable display objects such as stripchart recorders, oscilloscopes, LEDs, gauges and thermometers. Change colors, fonts, sizes and other appearance aspects of each individual object.

VISIONmeasure's key features include:
- Simultaneous view of multiple graphs
- Import/Export capability with other file formats

VISIONdaq/daq+
Advanced monitoring & analysis

VISIONdaq features an enhanced set of capabilities compared to VISIONmeasure, including advanced recording, monitoring and analysis functionality for a broad range of industry standard third party CAN data acquisition devices.

VISIONdaq+ adds additional support for acquiring time aligned data from a wide variety of ECU interfaces using commonly found ASAM CCP or XCP protocols to ensure the widest possible compatibility with legacy hardware.

VISIONdaq+'s key features include:
- Support for time aligned ECU interface data
- ASAM CCP and XCP compatibility

Acquire, view and analyze data, exploit advanced features in conjunction with ATI or legacy DAQ hardware.

Key VISIONdaq features include:
- Support for industry standard third party DAQ modules
- ASAM CCP and XCP compatible

Key VISIONdaq+ features include:
- Support for time aligned ECU interface data
- ASAM CCP and XCP compatibility
VISION Remote Dashboard
Smarter. Safer. Portable.

VISION Remote Dashboard offers convenient, adaptable, location-independent, safer viewing and interaction with your important VISION data. Create and display customized virtual dashboards on secondary displays or virtually any device connected to a network.

Remote Dashboard is platform independent that only requires a HTML 5 compatible browser and provides much more functionality than displaying data. Advanced features such as Action Buttons, Recorder Panel and Script panel provide simple, intuitive remote interaction with VISION. Make calibration changes, control recorders and run scripts without the distraction of a keyboard and mouse, at your convenience.

Key Remote Dashboard features include:
- Access VISION data remotely
- Customize virtual dashboards for secondary displays, including tablets and smartphones
- Execute common VISION software functions independent of location
- Monitor multiple remote locations at once
- Reduce in-vehicle distractions - improve user safety
- Convenient, easy to use and fully secure
- Adjust multiple calibration parameters with just one touch or with no-touch GPS triggered automation

Download Remote Dashboard Connect for use with VISION Calibration and Data Acquisition Software 5.X.

No-Hooks
Advanced ECU RP

No-Hooks is fully integrated within ATI's VISION Calibration and Data Acquisition Software.

ATI offers an innovative, patented software-centric method for rapid prototyping production ECUs with its sector leading No-Hooks technology. Functioning as an extension of VISION Calibration and Data Acquisition Software, the primary benefit of No-Hooks is that it allows users to internally bypass Read-Only control variables in the ECU’s RAM with calibratable parameters.

As such, ATI's No-Hooks enables users to explore a wide variety of advanced rapid prototyping applications including system validation and fault injection, all without requiring costly external hardware-in-the-loop (HIL) systems.

Key No-Hooks Advanced ECU Rapid prototyping features include:
- Bypass ECU instruction code
- No source code needed
- Fast and cost effective

Exploit Remote Dashboard's ability to view, manipulate and execute VISION functions to enhance field test safety.

Visualization Remote Dashboard offers convenient, adaptable, location-independent, safer viewing and interaction with your important VISION data. Create and display customized virtual dashboards on secondary displays or virtually any device connected to a network.

Remote Dashboard is platform independent that only requires a HTML 5 compatible browser and provides much more functionality than displaying data. Advanced features such as Action Buttons, Recorder Panel and Script panel provide simple, intuitive remote interaction with VISION. Make calibration changes, control recorders and run scripts without the distraction of a keyboard and mouse, at your convenience.

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OnTarget enables the expanded capability to add custom model based control algorithm code to replace the existing ECU code for calculating selected RAM variables on the ECU under test, also called the Target.

In the No-Hooks tradition, there is no need for access to or modification of the ECU source code; all that is required are the ECU executable and description files.

- All the features of No-Hooks Rapid Prototyping
- Bypass variables with outputs from a Simulink® model, allowing the addition of an entirely new control algorithm to be added to the existing ECU code without modifying the original ECU source code
- In many cases can use a free ATI GNU compiler
- Most common microprocessors supported
- Cost effective for fleet and durability testing of new algorithms
- OnTarget is ideal for the prototyping and testing of new closed-loop functions and Function A/Function B comparison testing
- Both the base strategy and the bypass model are calibratable simultaneously
- Harnesses the modeling abilities of Simulink combined with the calibration support of VISION

Key OnTarget features include:
- Add new control code to production ECUs without the original source code
- Exploit the power of Simulink models
- Cost effective for development and fleet/durability testing of new algorithms

CANLab is a multi-bus network analysis tool that provides a complete solution for key industry standard network protocols such as Controller Area Network (CAN) including SAEJ1939 and Local Interconnect Network (LIN).

Support of popular databases and hardware with advanced post analysis is always included. CANLab can be used to view network activity, send and receive signals or messages, record and replay data, manipulate and analyze data, and check statistics, all in real-time:

- Accommodates most CAN hardware interfaces
- Offers analysis and scripting at no extra cost
- Provides a sophisticated strip chart recorder and replay
- No need to stop for changes - start or stop recording on the fly
- Connect or disconnect hardware without stopping the software

Key CANLab Multi-bus Network Analysis Software features include:
- Intuitive GUI design
- Log, send and replay CAN data
- Supports industry leading interfaces
- Scripting functionality as standard

CANLab features dials and gauges for viewing signals that significantly improve the data analysis process. Recorded or "live" signals and statistics can be graphed and analyzed simultaneously.
The DLX Datalogger offers a unique combination of functions, providing the features of a CAN interface, data acquisition module, and datalogger all in one compact package. Communication channels include CAN, K-line, and LIN that interface to ECUs or communicate with ATI data acquisition hardware.

The DLX brings a robust and cost effective datalogger and calibration interface to small engine development, including eight analog channels, one sensor power output, four thermocouple channels and four digital input/output channels. This combination ensures that ECU and instrumentation data are properly correlated for easy analysis. The small form factor and IP65 rating make the DLX ideal for space constrained applications.

ATI's all-new VISION Data Analyzer enables users to view DLX Datalogger data stored in ASAM MDF4 version 4.1 file format without requiring an additional software utility to interpret MDF4 files - a first for data loggers in this segment.

Data is stored on the DLX in ASAM MDF V4 files that can be easily accessed by using the USB port or removing the SDHC card.
EMX Data Acquisition Modules

Key EMX DAQ module features include:

• Compact packages with extended temperature range
• Analog, thermo or combined units available to suit bespoke requirements
• Highly competitive cost-per-channel equation
• Configurable data acquisition rates, voltage range or thermocouple types by channel
• Advanced anti-aliasing and programmable DSP software filters for accurate and reliable data
• High end hardware filtering
• Advanced selectable software filters - Bessel, Butterworth, Elliptical
• Hard anodized billet aluminum housings
• IP67 rated for installation in rugged environments
• Aerospace grade Deutsch connectors
• Pressure differential compensation via Oleophobic breather
• No physical switches or preset ranges required
• Supports multiple thermocouple types including B,E, J, K, N, R, S, T, selectable per channel
• 3rd party SW support using CAN communication or ATI ICP CAN for precise time alignment within VISION Software for enhanced features

EMX Data Acquisition units provide an unprecedented level of high end measurement and redefine the cost per channel equation for the industry sector, offering unrivalled performance and reliability. Available in thermo, analog or combined channel variants, EMX modules feature compact, water-tight, IP67 rated, hard anodized billet aluminum housings and aerospace-grade Deutsch connectors. ATI's innovative hardware architecture enables an extremely wide range of EMX modules resulting from the ability to combine analog and digital channels in a variety of compact packages to suit individual project requirements. Subsequently, ATI's EMX modules are frequently used to replace existing high cost rack-sized clusters of dedicated analog and thermocouple units, delivering significant cost and performance benefits as a consequence.

EMX modules incorporate advanced features including user configurable software filters, wide measurement ranges, channel isolation and built-in sensor power for analog channels. All EMX units are capable of recording data to ATI's renowned VISION Data Acquisition Software - which also provides powerful post analysis and stand-alone hardware configuration functionality. With the launch of the EMX Configuration Tool, CAN messages can be customized for use with any one of the significant number of third party applications capable of decoding CAN messages. EMX's small size, protection rating and wide operating temperature range allows installation of the modules closer to the signal sources in rugged environments, backed by the security of ATI's 3-year warranty.

The EMX design is based on a modular chassis, available in thermo, analog or as a combination of channels, in a variety of size formats.
The A8 is ATI’s next generation of ECU serial interfaces, providing easy connectivity between a PC USB or Ethernet port and an Electronic Control Unit (ECU). Connecting via the microprocessor’s debugger interface, the A8 enables data acquisition, calibration, and flashing functionality to the ECU’s microprocessor memory regions. Connecting through the debugger interface provides the capability of acquiring data and flashing the ECU at a significantly higher rate than via the CAN bus. The CAN bus is thus liberated for other tasks, for example monitoring diagnostic information.

The A8 allows modification of the ECU memory without interrupting the ECU processor. Keeping up with technology, the A8 supports the latest microprocessors’ debug interfaces including JTAG, OCDS, Nexus, and DAP2. Additional processors can be supported based on customer requests.

Built for automotive environments, the A8 is designed to be user-friendly, versatile and to deliver fast data throughput.

The A8 Serial ECU Interface features include:
- Fully integrated ECU interface
- Acquire, calibrate and flash all-in-one
- High speed ECU data acquisition
- Dynamic data rates
- Plug and play USB or Ethernet connectivity

ATI can create custom enclosures to enable A8 integration on space restricted ECU modules.

Built for the most demanding environments, including usage within the ECU underhood.
**CANary & CANary FD**

**Compact CAN Interfaces**

The CANary is a pocket-sized CAN interface for ATI’s VISION Calibration and Data Acquisition Software. Communicating via the Universal Serial Bus (USB) connection, it’s two CAN channels enable communication from VISION Software to ATI data acquisition hardware, ECU modules (using CCP or XCP) for calibration, and to other CAN-based products compatible with VISION Software.

The 4 channel CANary FD is designed for the increased data available on CAN FD networks, yet retains the features of the standard CANary. The CANary FD easily connects to the PC over USB, providing a simple method to acquire CAN FD data using VISION.

Supported devices include:
- ATI data acquisition hardware (EMX series, EDAQ series, Voltage Output Module (VOM), and Vehicle Information Display (VID))
- ASAM communication protocols (CCP/XCP) typically used for calibration, monitoring, and flashing of ECUs
- Generic CAN devices that utilize database files

Key features for the compact CANary CAN Interface include:
- 2 high speed CAN channels
- Both CAN channels handle high bus loads simultaneously
- Advanced time synchronization of ATI DAQ Hardware
- Micro robust design

The ATI CANary FD has four galvanically isolated high-speed CAN channels and USB/DB9-M physical connections.

Key features for the compact CANary FD CAN Interface include:
- 4 high speed CAN channels capable of CAN FD
- All 4 channels are galvanically isolated
- Capable of both ISO CAN FD and non-ISO CAN FD
- Supports ATI Optimized DAQ when using the CANary FD with VISION and ATI DAQ hardware
- Mechanically switchable CAN termination on each channel
- SAE J2534 drivers available

**CANverter I/O module**

The CANverter is a compact and cost effective I/O module suitable for any high-speed physical layer CAN network. Used globally, this well-proven device can either send a message on a CAN bus or translate CAN data to an external acquisition system.

Produced in high-quality ABS plastic, CANverter’s light weight and compact size makes it portable and simple to install just about anywhere.

Features:
- Converts CAN bus data to analog voltages or digital signals or PWM output.
- Converts analog or digital inputs to CAN data.
- Easy setup via the CANverter Configuration Software (using a .dbc or .ufd database, drag and drop signals onto the desired pin for quick configuration).

Key CANverter I/O module features include:
- Bidirectional CAN to I/O conversion
- Compact and cost effective
- Supports CAN database files
- Easy drag and drop
ATI offers its own branded and standard Kvaser CAN bus interface products to complement its line of tools for any application requiring access to the CAN bus via a PC. These products provide a competitively priced, easy to use, flexible solution for network interfacing with VISION or CANLab Software. Kvaser’s product range is all based on the same API, CANlib. Write to just one API and use any product on any platform.

Select from three main product areas. USBcan units offer two channel USB interfaces for the CAN bus, while the Leaf series of products provide a single channel USB interface for CAN with a range of features and price points. Finally, products such as the Kvaser Memorator allow you to log data without a PC, and then use the PC to extract network messages. Professional versions of any Kvaser product offer Magisync™, Kvaser’s software time stamp, to time-align multiple CAN transceivers. Broader temperature ranges, higher speeds, increased bandwidth and higher levels of accuracy differentiate Kvaser’s professional products.

Compared to competitors, Kvaser interface and logger products offer these advantages:

- Kvaser’s universal, easy to use API for both software developers and the end client
- Free software, free updates and free support
- Swedish innovation and Italian product housing design
- Tailor-made to meet the needs of engineers
- Strong commitment to R&D investment
- ATI branded devices offer extra functions compared to Kvaser equivalents

ATI has developed unique products that satisfy specific test cell or dynamometer challenges. These highly accurate products measure engine timing (IGTM) or speed (SmartTach) in convenient ways to provide information that otherwise may not be available.

- Satisfy a unique need
- Rugged construction
- Resistant to extremes of temperature
- High levels of reliability

SmartTach Module

Universal speed measurement made easy with ATI’s SmartTach. The SmartTach takes pulse output from Engine position sensors, Dyno Encoders, Ignition drivers and other sources and provides a scaled analog speed output.

The SmartTach can easily handle missing tooth wheels and multi-strike ignition systems that cause problems with Frequency to Voltage conversions. Use the SmartTach to also measure frequency, pulse width or duty cycle.

Ignition Timing Meter

ATI’s Ignition Timing Meter (IGTM) is a precision timing measurement instrument designed for engine development and testing.

Measure ignition, camshaft or injector timing with an accuracy of +/-0.05 degrees for steady-state and transient testing. The IGTM-2000 provides an easy means for data acquisition systems to collect real-time measured ignition timing on spark ignited engines.
Comprehensive ongoing Training

ATI offers hands-on training to its customers globally. The courses offered are designed to gain a complete understanding of ATI's product concepts, functions, and features. Through instructor-led demonstrations and hands-on simulations, attendees will be able to apply this newly-acquired knowledge directly to their skillset. ATI training classes can be conducted at any one of the ATI facilities listed globally or on-site at your convenience. To determine your training needs or to schedule training, please contact your local ATI office.

Examples of ATI’s Most Popular Classes:

**Advanced VISION**
Focus on time-saving using the advanced features offered by VISION, including:
- Customization
- Calibration Manager
- Advanced table views and templates

**Rapid Prototyping Basics**
- No-Hooks software set up overview
- Perform real-world modification of ECU parameters and algorithms
- Discover RP functions that make this patented product unique
- Review real-world examples to expand the capabilities of your own processes

**ECU Interfaces**
- Discover how serial interfaces are used in the calibration of and data acquisition from ECUs
- Review function and capabilities of each type of interface

**Introduction to CANLab**
This class covers initial set up and use of ATI's CANLab software. Learn more about using CAN with VISION, CAN Message functionality, and configuring CAN interface hardware. Practical examples include:
- Monitoring, recording, and sending CAN messages
- Filtering and replaying CAN messages
- Using CAN Database (dbc) files
- Overview of CANLab Scripting

**Scripting**
- Overview of scripting
- Create individualized tools to automate custom activities or repetitive tasks
- Review examples of scripting techniques to improve productivity

Rapid on-site support Worldwide

In addition to free product training, ATI prides itself on delivering a reactive global support service that recognizes that your time is precious, enabling your team to maximize productivity with confidence. For longer-term projects a comprehensive on-site support service is also available on request globally for our major OEM and Tier One partners.

- Typical support emails answered within one hour
- Two week average repair
- On-site support available worldwide
- Free, ongoing product training
- Free, ongoing software updates and feature additions*

*Current ATI SW Maintenance and Support required

1. USA - Accurate Technologies Inc.  
   Novi, Michigan
2. France - Accurate Technologies SAS  
   Futuroscope-Chasseneuil
3. Germany - Accurate Technologies GmbH & Co KG  
   München
4. Sweden - Accurate Technologies AB  
   Mölndal
5. United Kingdom - Accurate Technologies (UK) Ltd.  
   Hatley St. George
6. China - Accurate Technologies China  
   Beijing
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   Bangalore
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Photo - courtesy Delta Motorsport.
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