



Battery Test Automation & Control

- Automate battery cyclers, chambers, and lab equipment through a single test framework.
- Reduce test setup time with reusable procedures and standardized workflows.
- Improve data quality and test repeatability across battery development programs.

iTest.BTS is A&D Technology's battery test automation platform for controlling and coordinating battery cyclers, environmental chambers, measurement equipment, and supporting laboratory systems. Engineers can create advanced test procedures, automate complex validation workflows, and centralize data acquisition across battery development labs. From cell characterization to module and pack testing, iTest.BTS helps teams increase productivity, improve repeatability, and accelerate development.



Own Your Software

One-time software purchase with no mandatory subscription fees, customized for your application.



Open & Flexible Integration

Adaptable vendor-agnostic platform that connects and automates an entire battery test ecosystem.



Scalable Lab Integration

Support applications ranging from single battery test stands to global battery laboratories.

Device Drivers

- Thermal Chamber (TCP/IP, RS-232/485)
- Programmable Power Supply (TCP/IP, CAN)
- Data Acquisition and Control (TCP/IP)
- Safety Systems (TCP/IP, RS-232/485)
- Laboratory Management System (TCP/IP)
- Chiller/Cooler (TCP/IP, RS-232/485)
- Vibration Shaker Table (TCP/IP)
- Simulation Platform (TCP/IP)
- User-Defined Custom Devices (TCP/IP, RS-232/485, CAN)
- Battery Management System (SMB, CAN, LIN)
- Others available upon request

Standard Supported Tests

- Static Capacity
- Hybrid Pulse Power
- Calendar Life
- Energy Efficiency
- Reference Performance
- Constant Power Discharge
- User Defined

Technical Specifications

Feature	Capability
Application Focus	Cell, Module, and Pack Testing
Automation Platform	iTest Test Automation Software
Equipment Integration	Battery Cyclers, Chambers, DAQ, Power Supplies, Instrumentation
Communications	Ethernet, CAN, Serial, OPC UA, Vendor APIs*
Test Sequencing	Automated, Conditional, Event-Driven
Data Acquisition	Synchronized Multi-Device Data Collection
Reporting	Automated Data Logging and Reporting
Scalability	Single Station to Enterprise Lab Deployments
User Interface	Graphical Test Configuration and Monitoring
Typical Users	OEMs, Battery Manufacturers, Research Labs, Universities