



Validate Control Strategies Faster

- Run models in deterministic real time without developing embedded code.
- Reduce development time by identifying issues earlier in the control system lifecycle.
- Transition seamlessly from desktop simulation to real-time testing and rapid prototyping.

ADX is A&D Technology's standalone real-time Linux controller for executing models outside the desktop environment. Engineers can deploy control and system models directly to dedicated real-time hardware, enabling rapid prototyping, controller development, and real-time simulation without the complexity of custom embedded programming. ADX provides a practical path from model-based design to validation while supporting future migration to HIL and test-cell environments.



Real-Time Models

Run models, like those created in Simulink®, on dedicated real-time Linux hardware for testing, simulation, and control applications.



Flexible Integration

Connect to existing test systems, automation frameworks, and third-party tools through industry-standard interfaces and protocols.



Scalable Growth

Support applications ranging from rapid control prototyping to complex real-time simulations with expandable I/O and processing capabilities.

Features

Integrated Visualization

Monitor key parameters and system status directly from the built-in display.

Model-Based Integration

Deploy and validate models, like Simulink, using familiar MathWorks workflows.

Expandable Architecture

Scale system capability as testing requirements evolve.

Standalone Operation

Execute models directly on dedicated hardware without a constant PC connection.

Real-Time Linux Platform

Achieve deterministic real-time performance on an open and flexible platform.

Flexible Connectivity

Support CAN, Ethernet, analog, digital, and other interfaces used throughout vehicle testing.

Build the Model → Deploy to ADX → Validate in Real-Time → Scale to Larger A&D Test Systems

Technical Specifications

Feature	Capability
Development Environment	MATLAB® / Simulink®
Operating System	Real-Time Linux
Deployment	Standalone Real-Time Execution
Communications	CAN, Ethernet, and other industry-standard interfaces
I/O	Analog, Digital, PWM, Frequency
Interface	Integrated Front-Panel Touch-screen Display
Applications	RCP, Control Validation, Real-Time Simulation