

Your Altium Innovation Station

Altium's Innovation Station brings together the award-winning Altium Designer unified electronics design software with the Altium NanoBoard range of reconfigurable hardware platforms to provide a complete electronics design and deployment environment.

It's a design environment that puts programmed device intelligence at the center of the design process and supports continuous and ongoing design innovation. The Innovation Station provides the cornerstone for real and sustainable product differentiation, both now and into the future.

Altium
Designer

Innovation
Station



Altium Designer brings together hardware, software and programmable hardware design within a single, unified environment.



The Desktop NanoBoard is the ultimate reconfigurable hardware platform for interactive product development.

Plug-in Peripheral Boards support a wide range of I/O and hardware functionality

Custom Plug-In Modules let you add your own custom hardware functionality from supplied board templates

Swappable Daughter Boards allow you to target a range of different programmable devices such as FPGAs and processors



Innovative deployment options

When it comes to getting your design into the hands of your customers, the Altium Innovation Station supports a range of deployment options from full, off-the-shelf hardware solutions to complete custom PCB design.

- > Deploy your design directly from the Desktop NanoBoard into any of our application-ready, off-the-shelf deployment NanoBoards, customized using peripheral and daughter boards.
- > Fulfill specific product hardware requirements by adding custom plug-in peripheral boards to any of our off-the-shelf deployment NanoBoard solutions.
- > Use the complete set of NanoBoard, daughter board and peripheral board reference designs to create your own custom NanoBoard form factor to suit your specific application.
- > Take your design and implement it as a traditional full custom PCB design using as much or as little of the NanoBoard IP as you wish, with the option of including NanoBoard firmware to support direct communication between Altium Designer and your custom board.



The Altium Innovation Station lets you design without limits, from pure device intelligence, with no electronics hardware design required, all the way through to full, custom electronics hardware. You choose the implementation option that best suits your application, target market and technical and business needs.

Altium Innovation Station design advantages

Design libraries that are more than component symbols and low-level code libraries – Design with blocks of pre-configured hardware, such as USB, Ethernet, or standard interfaces, complete with software drivers to suit.

Hardware blocks that go beyond being mere schematics – Use plug-and-play hardware I/O modules, ready to connect to your chosen processor and FPGA.

An intelligent and connected design environment – Immerse yourself in a design system so versatile that it automatically configures itself to suit your design.

A full Device Software Framework – Write code independently of the processor, with full driver support for the chosen set of peripheral blocks.

Design that is independent of the underlying devices – Move hardware and software between processor and FPGA devices without modifying the design.

On-the-fly hardware generation – Capture design in an abstract way, and then push it from the code into fast hardware, with a few mouse clicks.

Design software interfaced directly to the development hardware – Reconfigure your development environment to suit your design with swappable FPGAs, processors and peripheral devices.

Versatile deployment options – Move the entire design from the development board, straight into an off-the-shelf unit, ready for deployment or port your design into your custom hardware, without having to redo your work.

The benefits of using Altium's Innovation Station

Altium's Innovation Station allows you to take a whole new approach to electronics design. By using the potential of today's high-capacity programmable chips you can move functionality out of the physical domain and focus on producing device intelligence that is both secure and easily updateable throughout the life of the product.

- > The IP that you program into the system is much easier to protect than the physical IP as the source isn't shipped with the product
- > Soft design can happen before the hardware platform is designed
- > Soft design can continue after the hardware is designed
- > Soft design can continue after the hardware is manufactured
- > Soft design can continue after the hardware is deployed to the end customer
- > Aesthetics implemented in the soft design can be changed after the product is manufactured and deployed
- > Soft design provides the basis for an ecosystem which connects your customer to you via your products

Innovation is the source of true and sustainable product differentiation. Altium's Innovation Station puts innovation in your hands. Start designing the world-leading products of tomorrow.



Get your hands
on your own
Innovation Station
today.

1-800-544-4186
www.altium.com