

Why choose Altium Designer?

Altium helps designers deliver real innovation in electronic product design.

We help designers focus on creating new functionality and product differentiation, to build the next generation of electronic products.

And we do this by producing the solutions – the electronics design tools – designers need to create these new products.

Altium Designer is the world's leading unified electronics design system. It allows developers to take a design from concept through to completion within a single, unified application.

Key feature	Benefits
Single, unified design environment	Allows you, in a single, unified design environment, to create the intelligence of your design using software, hardware and programmable hardware, and deploy this through to board design and manufacture
Dynamic, real-time ECAD-MCAD linking	Gives real-time, dynamic linking between the ECAD and MCAD design environments using powerful, real-time 3D visualization technology to allow electronics designers to meet physical design constraints accurately and without guesswork
Programmed product functionality	Provides a new way to do electronics design that allows intelligent, connected products to be designed rapidly with a focus on the functionality programmed into the product, rather than manufactured within it
Exploit the potential of programmable devices	Enables you to exploit the potential offered by today's large-capacity programmable devices as a rapid system design and deployment platform
Easily work in updateable soft realm	Lets you work within an easily updateable soft realm where you can change software and hardware with equal ease
Extends beyond design software	Extends beyond the design software to include development and deployment hardware as part of the design solution
Unifies software development with FPGA design	Unifies software development with FPGA design to allow fluid partitioning of functionality between software running on a processor and programmable hardware
Allow large-scale FPGAs to be seamlessly integrated	Unifies FPGA design with board design to allow large-scale FPGAs to be seamlessly integrated into a custom physical platform, using a unified design process
Design independent of device vendor	Provides a comprehensive design environment that supports targeting of different processor architectures, different processor implementations (hard, soft, hybrid) and different programmable logic families – design independent of device vendor
Seamless design-level portability	Provides seamless design-level portability between different software execution platforms and different programmable logic devices
Rapid product implementation	Allows soft hardware to be uploaded to a range of off-the-shelf deployment NanoBoards – reconfigurable hardware platforms – for rapid product implementation
Create and manage design data centrally	Allows all design data to be created and managed centrally within a single design environment
Simultaneous soft and hard design	Enables the soft design to be updated, modified and improved while the hardware is being designed, after the hardware design is completed, and after the final product is shipped to customers
Ease of connectivity to wider product 'ecosystem'	Provides an easy way to add connectivity to designs to allow for development of a wider product 'ecosystem' that connects you to your customers via your products
New deployment possibilities	Opens up a new world of deployment possibilities with Altium's NanoBoard range of flexible, vendor-independent reconfigurable hardware development and deployment platforms
Improved project management and version control	Improves project management and speeds up design times by including as part of the design environment, powerful data management capabilities like version control system support and the ability to compare graphical differences between design files