Professional PCB Design Tool, Ready to Pick Up and Go

Overview

Part of what you do requires designing electronics, but PCB design is not the only focus for you and your company. You need an easy-to-use PCB design tool that you can pick up and design with when you need it that is also powerful enough for professional use. CircuitStudio is built on 25 years of Altium R&D experience and features a modern interface so you can get your design done faster and easier.

Key Features and Benefits

Streamlined and Easy-to-Use Interface

When it comes time to design a PCB, you need to be able to instantly get to work on the task at hand. CircuitStudio gives you an intuitive, streamlined interface to help you get the job done quickly and efficiently.

Powerful Native 3D PCB Editing

Your designs don't exist in two dimensions, and more than ever, you need to take mechanical constraints into account when designing your PCB. Native 3D PCB editing in CircuitStudio lets you visualize, navigate and edit your board as it appears in the real world.

- Powerful PCB design engine gives you the freedom to quickly layout and route your board

- View and navigate your board in Native 3D to verify mechanical form

- Directly integrate 3D STEP models for component bodies and mechanical housings

- A comprehensive PCB rule system allows you to constrain your design as you need and design rule checking will verify that your board meets those specifications

- Interactive pin swapping with managed synchronization with your schematic

Straight-Forward Schematic Capture and Project Management Tools

You need the tools to fully manage and outline your projects starting with the schematic capture. CircuitStudio gives you the flexibility to create detailed and comprehensive schematic designs from the outset, and quickly synchronize them with a PCB for board layout.

- Streamlined schematic editing engine gives you all the tools to capture your design before board layout

- Create complete multi-sheet and hierarchical schematic designs

- Mixed mode simulation capabilities are included right from inside the tool

- Add revision control to your projects and documents with version control support

- Easily bring in existing designs using the EAGLE™ importer for projects and libraries

Feature Highlights

Feature	Description
Native 3D PCB	Visualize and navigate your board design in 3D just as it appears in reality. Reduce the number of costly prototypes by verifying the mechanical form of your board directly within the CircuitStudio Native 3D view.
Hierarchical Design	Easily manage the complexity of your project designs by breaking down design elements into specific sub-sheets. Each sheet can be easily referenced back to the high-level overview with specific sheet symbols and parameter values for components.
Interactive Routing	Minimize the time you spend manually routing components with interactive routing. Efficiently route your components with interactive routing features includes push, stop-at-first, look ahead, and one-click routing options.
Differential Pair Routing	Create complex high speed routing topologies quickly and efficiently with dedicated tools for differential pair routing.
Components from Altium Content Vault	Access over 200,000 vendor specific and generic components directly from the Altium Content Vault. Save time when creating your own libraries by collecting components that have already been verified by the Altium Content team.
Design Rules Support	Set design rules that are unique and specific to your project. From schematic to board design, all design rules are kept in-sync and can be checked easily throughout the design process.
Unified Data Model	Keep your design data controlled and unified between schematic and board design phases. The CircuitStudio Unified Data Model ensures that changes between either phase of your project are updated together.
Pin Swapping	Re-assigning the nets on a microcontroller design can be a time-consuming process. The CircuitStudio Pin Swapping feature allows you to dynamically reassign the nets on a selected component in seconds.
Streamlined Interface	The CircuitStudio interface was designed from the ground up to be intuitive to learn and easy to use immediately. The modern, streamlined interface is simple enough to navigate and powerful enough to contain all the advanced features you require in professional design software.
Local Storage	Be in complete control of all your design data with local storage on your personal workstation or network.
CadSoft EAGLE™ Importer	CircuitStudio allows you to easily import your existing designs from CadSoft EAGLE™ in a few easy steps.

Licensing with Farnell element14

CircuitStudio is sold exclusively through Farnell element14, a global distributor of technology products, services, and solutions for electronic system design, maintenance, and repair.

An annual subscription plan is available for CircuitStudio, which provides a steady stream of product upgrades and updates immediately upon release keeping you efficient and ahead of the competition for less than buying upgrades.

You will also have access to an active design engineer community from Farnell element14 to share ideas and collaborate with fellow designers.

CircuitStudio from Altium

Altium is a multinational software company focused on PCB design systems best known for Altium Designer, its flagship unified electronics design tool for board level schematic design and PCB layout. With over 25 years of continuous R&D in PCB design, Altium is committed to creating innovative and professional PCB design tools for a variety of industries. Drawing from our R&D and customer experiences, CircuitStudio is a professional tool from an established player in the PCB design tool industry.