

OVERVIEW

PCB design is a work of engineering art. It combines exhaustive scientific knowledge with a natural design intuition to create a single, unified vision. While your designs often go unnoticed, they work tirelessly in the background of our lives, shaping the direction of future technologies. The right tool makes the most advanced PCB design technology accessible so you can turn your ideas into reality.

Altium Designer enables you to turn those ideas into reality with the most advanced PCB design technology in a fully unified design environment. Unlock your greatest design potential with powerful automation and productivity tools. Then, connect and share your ideas and designs with every stakeholder involved in your product design with an intuitive set of collaboration features. Ready to expand your design possibilities? Tap into the data-rich veins of a trusted supplier network and take advantage of ready-to-use design content crafted by the experts at Altium. With Altium Designer, your design potential knows no limits - let's see what's possible.

KEY FEATURES & BENEFITS

Effortless Design Automation

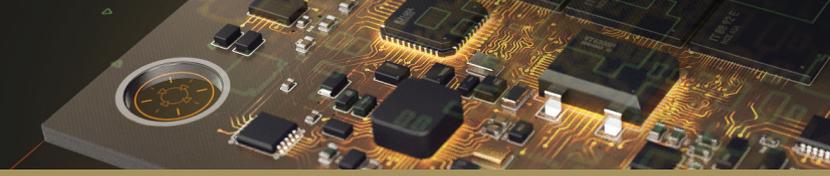
Your design efficiency is measured in precise layouts and crystal-clear manufacturing documentation, requiring the most advanced PCB design technology available. Altium Designer keeps you at the highest peak of productivity in your design workflow with powerful routing tools, flexible design reuse options, and advanced release management capabilities.

- Easily design the most accurate schematics and route advanced board layouts with interactive routing modes, intelligent auto routing systems, and support for advanced high-speed design technologies.
- Get a head start on your next design project and streamline your setup process with powerful design reuse tools including snippets, managed schematic sheets, and component library templates.
- Remain in complete control of your design journey and clearly communicate design intent to manufacturing with powerful release management tools in Altium Designer.

Intuitive Team Collaboration

Collaboration and communication are essential elements for a successful design process. Altium Designer connects your PCB design to the complete product design ecosystem with powerful ECAD to MCAD collaboration features, fully managed library management systems, and the world's first and only support for rigid-flex PCB design in Native 3D.

- Ensure that your board fits the mechanical enclosure right the first time with powerful ECAD to MCAD collaboration tools in Altium Designer including Native 3D clearance checking.
- Always work with trusted and reliable component data with the flexible library management options in Altium Designer including a complete lifecycle management system and part approval requests.
- Remain competitive and at the forefront of innovative design trends with the world's first and only support for rigid-flex PCB design.



Endless Engineering Reach

Your PCB design exists as a series of intimately connected systems, all fully dependent on each other and connections with the outside world. Altium Designer allows you to connect directly to the global world of engineering knowledge and manpower with real-time supplier data, powerful data management tools, and expertly crafted design content.

- Save time creating components by tapping into the extensive source of expertly crafted design content from the experts at Altium including over 300,000 ready-to-use components.
- Efficiently manage your design data and workflow with the comprehensive data management options in Altium Designer including a complete version control system and flexible lifecycle management system.
- Always meet your time-to-market and budget goals with real-time pricing and availability data for your part selections from your most trusted parts suppliers.

FEATURE HIGHLIGHTS

Unified Design Environment Stay at your most productive with a streamlined and unified interface for all areas of your design process. Easily switch between schematic capture and board layout in the same intuitive design environment.

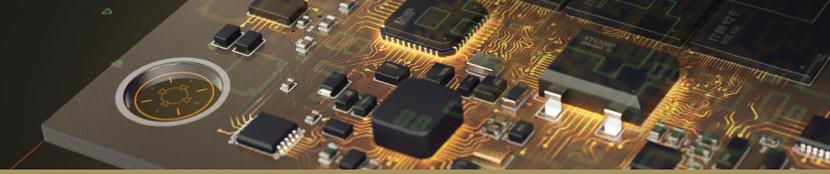
Intuitive Interactive Routing Easily route the most complex board layouts with the intuitive interactive routing options in Altium Designer. Clearly visualize clearance boundaries between objects and tracks in real-time, and take complete control of your board layout with powerful routing modes.

Automated High-Speed Design Tools Design accurate and error-free high-speed board layouts with xSignals. The xSignals wizard allows you to easily plan and constrain your high-speed design by automatically configuring length-matching rules, signals pairs, and signal groups for today's advanced technologies including DDR3.

Powerful Native 3D PCB Editing and Rigid-Flex Support Design flex and rigid-flex PCBs that fit mechanical enclosures right the first time with Native 3D PCB editing and clearance checking. Easily define folding lines and material selections for your rigid-flex circuitry with rigid-flex coverlay support.

Seamless ECAD/MCAD Collaboration Clearly convey design intent and intuitively collaborate with everyone involved in your design process with the powerful ECAD/MCAD tools for Altium Designer. Intelligently link design data between Altium Designer and your mechanical designer's environment with the MCAD Co-Designer extension.

Flexible Design Variants Save time creating variations of your original design with flexible variant options. Easily create multiple versions of a design that can be swapped out instantly with modified components and version-specific adjustments.



Automated Design Reuse Tools

Get a head start on your next project with the powerful design reuse options in Altium Designer. Easily reuse trusted design assets including existing circuitry, parts libraries, and pad & via library templates.

Automated Output Job Files & Documentation Tools

Keep your design data organized and automatically updated with support for industry-standard manufacturing documentation. Easily configure the exact documents you need for fabrication and communicate your design intent clearly with detailed PDF outputs, 3D PCB documentation, and multi-line text support.

Integrated Version Control

Understand exactly who made changes to your design and when with integrated version control in Altium Designer. Easily check files in and out of a central repository with detailed change logs and an intuitive commenting system.

Comprehensive Library Management Tools

Easily re-use trusted component and design data with the powerful library management options in Altium Designer. Add existing component, schematic, and pad & via library templates to your projects and work from a unified and centralized source of design data.

Fully Customizable Design Rules & Constraints

Create the most advanced design rules that allow you to remain in full compliance with your specific manufacturing guidelines. An intuitive and streamlined design rule query editor allows you to easily organize the logic and flow of your queries and avoid any conflicting rules in your design.

Real-Time Supplier Links

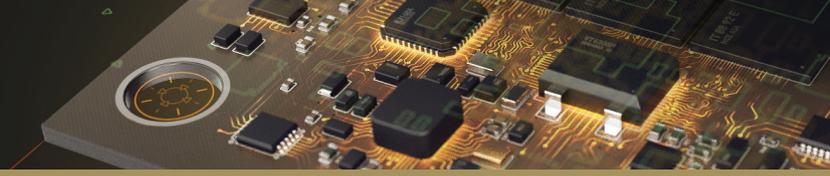
Make the most informed part selections with real-time supplier links that connect directly to your most trusted suppliers or internal ERP. Pricing and availability are instantly available in real-time, allowing you to get the best price on the market while meeting your specific budget goals.

Embedded Software Development Integration

Instantly share design data between your PCB and embedded software project with the integrated TASKING Pin Mapper. Save time translating pin assignments, processor chip identifiers, and symbol names between Altium Designer and your TASKING toolset.

Automated Data Management with Altium Vault

Take the guesswork out of managing and organizing your design data and workflows. The Altium Vault provides a centralized platform for your entire design ecosystem, allowing you to easily manage design data, projects, and the underlying design tool infrastructure.



ALTIUM SUBSCRIPTION

Wherever you work, and whatever you create, you'll always need the best technology to remain competitive. For the past 30 years we've been supporting and expanding the Altium Designer platform through Altium Subscription, enabling you to meet the design challenges of today, and tomorrow. Altium Subscription enables you to stay at the top of your productivity and design potential with:

Instant Access to New Features

Stay ahead of the competition with instant access to every new feature update for Altium Designer. We're constantly updating your tools with new productivity, collaboration, and time-saving features.

Technology You Can Trust

Work in the most stable design platform with 3 years of dedicated support for your design tools*. We're always focused on improving your design environment with a steady flow of maintenance updates and performance enhancements.

A Global Engineering Community

Collaborate and share ideas with a global engineering community that's focused on what matters most to you - electronic design. Submit ideas for new features or get inspired for your next design project on the Altium forums.

Consistent Costs and Budget Predictability

Always know exactly what you'll pay every year for your design tools and keep your costs predictable and consistent. With a subscription plan you'll always pay less for every new update.

FLEXIBLE LICENSING OPTIONS

Altium Designer is available with the following licensing options:

- **Altium Designer** - Access to complete board design and manufacturing capabilities. Includes front-end engineering design and verification system for both board-level and programmable logic design and Native 3D PCB design/editing capabilities.
- **Altium Designer SE** - Access to complete front-end schematic design capture solution for both board-level and programmable logic design. Includes analog/digital mixed SPICE simulation, VHDL/Verilog verification and Embedded-System-on-FPGA implementation features.

There are several licensing methods available to meet your unique design environment needs, including:

- **Standalone license:** Ideal for a single workstation and solo designer.
- **Floating license:** Share licenses inside your network with the Altium Private License Server.
- **On-Demand license:** Let us manage your licenses with the Altium On-demand license server.

ABOUT ALTIUM

Altium Limited (ASX: ALU) is a multinational software corporation headquartered in San Diego, California, that focuses on electronics design systems for 3D PCB design and embedded system development. Altium products are found everywhere from world leading electronic design teams to the grassroots electronic design community.

With a unique range of technologies Altium helps organisations and design communities to innovate, collaborate and create connected products while remaining on-time and on-budget. Products provided are Altium Designer®, Altium Vault®, CircuitStudio®, PCBWorks®, CircuitMaker®, Octopart® and the TASKING® range of embedded software compilers.

Founded in 1985, Altium has offices worldwide, with US locations in San Diego, Boston and New York City, European locations in Karlsruhe, Amersfoort, Kiev and Zug and Asia-Pacific locations in Shanghai, Tokyo and Sydney. For more information, visit www.altium.com. You can also follow and engage with Altium via Facebook, Twitter and YouTube.