

COMPARISON REPORT

ALTIUM DESIGNER 14 vs. ALTIUM DESIGNER 16

The world is changing, and electronics are leading the charge towards the future. At the core of our evolutionary pursuit for progress are engineers and companies like yours driving humanity forward. But do you have the design technology needed to deliver the connected, intelligent and autonomous devices of the future? **Invest in your future with Altium Subscription.**



Invest in Your Skills

Maintain your competitive edge with access to the newest design methodologies and resources.



Invest in Your Company's Success

Deliver the best products to market first at the lowest possible cost and continue to drive your industry forward.



Invest in Your Tools

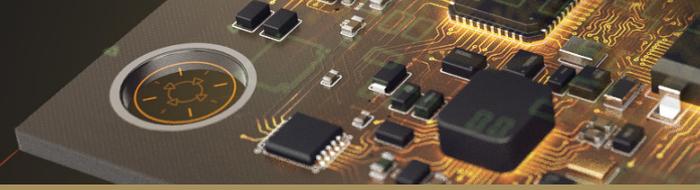
Equip yourself to design the technologies of the future with the latest EDA innovations in Altium Designer.

VERSION FEATURE COMPARISON

| Feature Name | What it Does | How It Benefits You | Altium Designer 14 | Altium Designer 16 |
|-----------------------------------|--|--|--------------------|--------------------|
| Flex and Rigid-Flex Design | Define rigid and flexible regions on your PCB layout. | Efficiently design today's advanced wearable and flexible technologies with support for both rigid and flexible circuitry. | ✓ | ✓ |
| Technology-Aware xSignals Wizard | Automatically detect and setup constraints for common high-speed technologies. | Design accurate high-speed board layouts with automatic configuration for DDR3/4 and USB 3.0 class and match length rules. | - | ✓ |
| Embedded Components | Supports the use of discrete embedded components. | Design the most reliable and cost-efficient board layouts for the smallest electronic products with embedded components support. | ✓ | ✓ |
| Offline Design System | Specify internet connectivity preferences for Altium Designer applications. | Remain in complete control of what network data you share with the outside world with connectivity options for licensing, suppliers, and more. | - | ✓ |
| Net Color Synchronization | Synchronize nets between schematic and PCB layout. | Ensure documentation accuracy and visual color notifications with net color synchronization in a managed ECO. | - | ✓ |
| Visual Clearance Boundaries | Visually see clearance boundaries while routing. | Clearly understand the impact of routing decisions in real-time with visual clearances between traces and components. | - | ✓ |
| Hole Tolerance Definitions | Add hole tolerances to pads and vias. | Guaranteed reliability when manufacturing your PCB by specifying precise hole tolerances in your documentation. | - | ✓ |
| Alternative Part Choice System | Select alternative part choices for obsolete or unavailable components. | Have complete control over your component selection process and include pin compatible backup part choices directly in your BOM. | - | ✓ |
| Unused Pad Shape Removal | Remove unused internal layer pad shapes to free copper areas. | Intelligently optimize the available copper geometry on your board layout by optimizing the impact of pads and vias on copper areas. | ✓ | ✓ |
| Draftsman® Documentation Platform | Create complete fabrication and assembly documentation in Altium Designer. | Easily communicate design intent right the first time with a complete documentation workflow in Altium Designer. | - | ✓ |
| Precise 3D Measurements | Measure all board objects while in 3D view. | Precisely measure your board layout in Native 3D PCB™ and clearly communicate design intent to manufacturing. | - | ✓ |

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| Advanced Layer Stack Manager | Define multiple and unique layer stackups for specific sections of your board layout. | Easily create and manage advanced layer stackups to meet your design requirements for rigid-flex circuitry and embedded components. | ✓ | ✓ |
| Real-Time Licensing Reporting | Manage and track design team's license usage. | Easily optimize your design team's licensing usage with real-time reporting and metrics. | - | ✓ |
| 3D STEP Model Generation Wizard | Automatically generate 3D STEP models for components. | Create the most realistic, accurate, and data-rich 3D models and get an exact representation of your board in Native 3D PCB™. | - | ✓ |
| Automatic Neck-Down | Create rules for automatic route neckdowns or expansions. | Efficiently complete your board layout with interactive routing that accounts for automatic necking and expansions for Room-based routing design rules. | ✓ | ✓ |
| Enhanced Smart PDF | Adds customizable PDF options quality and size. | Easily create personalized documentation that clearly communicates design intent right the first time. | ✓ | ✓ |
| True Variants | Adds support for component variant swapping and output generation of variant parameters. | Save time designing variations of an entire board layout or target variations for specific components and functionality. | ✓ | ✓ |
| PCB Filtering Enhancement | Build simple or advanced filters based on object type selection or expressions. | Easily select, locate, and modify design data objects with advanced and intuitive filtering options. | ✓ | ✓ |
| Component Placement System | Automatically align component footprints in the PCB editor. | Design the most organized and efficient board layouts with components that push, avoid, and snap-to alignment with other components. | - | ✓ |
| Altium Designer Extensions | Add extended features and functionality to Altium Designer. | Extend the potential of your design environment to meet the needs of specific needs of new technologies and your preferred workflow. | ✓ | ✓ |
| Advanced Component Search | Find components in libraries with customizable query fields and favorites. | Quickly find trusted components for your designs with advanced query options and search favorites. | - | ✓ |
| Advanced Pin Length Definitions | Calculates pin lengths to include internal bond wire. | Accurately route your high-speed design layouts with included pin lengths without having to perform manual calculations. | - | ✓ |

ABOUT ALTIUM

Altium LLC (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®, Altium Designer®, Altium Vault®, Autotrax®, Camtastic®, CircuitMaker®, CircuitStudio®, Codemaker™, Common Parts Library™, DXP™, Easytrax®, NanoBoard®, Octopart®, PCBWORKS®, P-CAD®, Protel®, Ciiva®, PDN Analyzer™, SmartParts™, ActiveRoute™, Draftsman®, Situs® 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.