

# COMPARISON REPORT

## ALTIUM DESIGNER 15 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.



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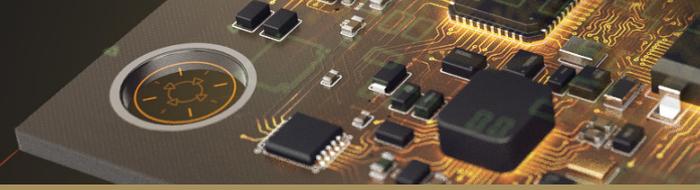
Equip yourself to design the technologies of the future with the latest EDA innovations in Altium Designer.

## VERSION FEATURE COMPARISON

Feature Name	What it Does	How It Benefits You	Altium Designer 15	Altium Designer 16
3D PDF	Export complete PCB layout into 3D PDF format.	Allow project stakeholders to easily examine a completed design from a PDF viewer without needing additional software.	✓	✓
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.	-	✓
xSignals High-Speed Design Wizard	Automatically creates rules for high-speed design layouts.	Save time when routing your high-speed designs with an easy-to-use wizard to configure your length matching rules.	✓	✓
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.	-	✓
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.	Guarantee reliability when manufacturing your PCB by specifying precise hole tolerances in your documentation.	-	✓
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.	-	✓
Solder Mask Hole Expansion	Specify solder mask expansion on top and bottom layers independently.	Easily customize your solder mask expansions independently for your top and bottom layers to meet specific manufacturing requirements.	✓	✓
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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Union Enhancements	Create union of objects in the PCB panel.	Quickly group related objects on your board layout for easy access and editing including tracks, pads, components, and more.	✓	✓
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™.	-	✓
Pad & Via Templates and Libraries	Create custom pad and via templates and libraries.	Quickly create templates that can be applied to specific groups of pads on your PCB for easy application.	✓	✓
Rigid-Flex Bikini Coverlay	Customize bikini coverlay material for rigid-flex designs.	Specify your exact material needs for support layers on your rigid-flex designs.	✓	✓
Live Drill Drawing	Updates drill drawing layer data in real-time.	Easily keep your documentation updated and error-free for manufacturing whenever you make changes to pad or via placement.	✓	✓
Board Outline Clearance Check	Adds rules to constrain the allowed proximity between objects and board edges.	Design an error-free PCB and meets your manufacturer's specific guidelines with clearance checking between objects and board edges.	✓	✓
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.	-	✓
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.	-	✓
Testpoint Clearance Check	Control clearances between testpoints and nearby pads and vias.	Ensure that your board can be successfully tested by your manufacturer with precise control for testpoint clearances.	✓	✓
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](http://www.altium.com). You can also follow and engage with Altium via Facebook, Twitter and YouTube.