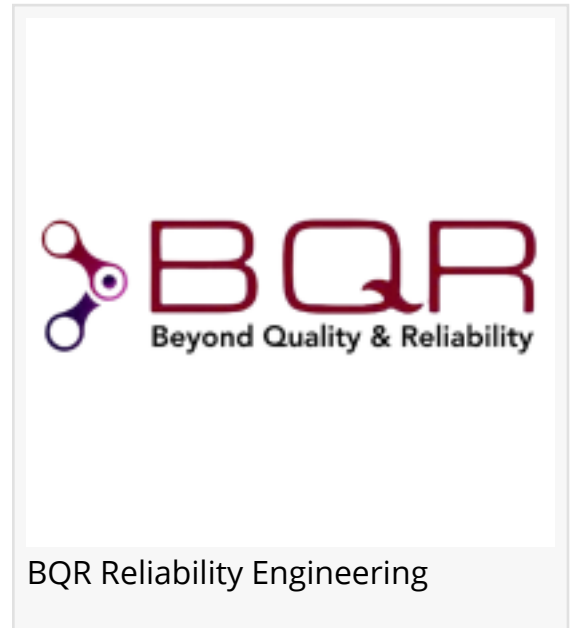


BQR Unveils Synthelyzer™: A Game-Changing ECAD Plugin for Electrical Stress Derating & MTBF Prediction for Board Design

BQR's Synthelyzer™ plugin automates electrical stress derating and MTBF prediction, enhancing design efficiency and component reliability for engineers.

ISRAEL, September 26, 2024 /EINPresswire.com/ -- BQR Reliability Engineering Ltd., a leader in reliability engineering software and services, today announced the launch of Synthelyzer™, a groundbreaking ECAD plugin designed to streamline electrical stress derating and MTBF (Mean Time Between Failures) prediction processes for electronic design engineers.

Synthelyzer™ integrates seamlessly with popular ECAD tools, offering engineers a powerful solution for accurately assessing component reliability and optimizing designs for long-term performance. By automating complex calculations and providing real-time feedback, Synthelyzer™ significantly reduces design cycles and enhances product reliability.



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- □□□□□□□□ □□□□□□ □□□□□□□□□□: Automatically calculates electronic component stress based on electrical and thermal parameters, ensuring compliance with industry derating standards.
- □□□□□□□□ □□□□ □□□□□□□□□□□□: Utilizes advanced algorithms to predict MTBF for electronic assemblies precisely, enabling informed design decisions and maintenance forecasting.
- □□□□□□□□ □□□□ □□□□□□□□□□□□□□: Integrates with leading ECAD tools, streamlining workflows and eliminating manual data entry during electronic schematic design.
- □□□□-□□□□ □□□□□□□□□□: Provides instant feedback on design and recommends design changes, allowing engineers to identify and address potential reliability issues and optimize component rating early in the development process.
- □□□□□□□□□□□□□□ □□□□□□□□□□: Generates detailed reports on stress derating, MTBF calculations, and other key reliability metrics, facilitating compliance with

industry standards and regulatory requirements.

Key benefits include:

- Synthelyzer™ integrates with BQR's automated software for reliability analysis in multi-board designs, offering advanced capabilities for electrical stress analysis, thermal management, and EOS (Electrical OverStress) violation detection. This integration provides a robust solution for optimizing product reliability across complex multi-board systems.
- Synthelyzer™ also integrates with BQR's RAMS analysis tool, delivering comprehensive functionalities for reliability prediction, availability assessment, maintainability analysis, and safety analysis. This ensures a thorough evaluation of electronic system performance and resilience.

Key benefits include:

With Synthelyzer™, engineers can proactively address reliability concerns early in the design cycle, adopting a "shift-left" approach. Its seamless ECAD integration and real-time feedback empower designers to identify and mitigate potential issues, ultimately reducing development time and costs.

As Yizhak Bot, founder and CEO of BQR Reliability Engineering, stated, "Synthelyzer™ is a game-changer, automating time-consuming tasks and providing precise insights to enable the design of more reliable and robust electronic products."

Synthelyzer™ is now available for integration with popular ECAD tools such as Altium Designer, Cadence-OrCAD, and Siemens-EDA. For more information or to request a demo, please visit our [website](#).

Key benefits include:

BQR Reliability Engineering is a global leader in providing innovative software solutions and services for reliability engineering in the electronic industry. We focus on improving product quality, reducing costs, and accelerating time-to-market, helping organizations achieve their reliability goals.

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