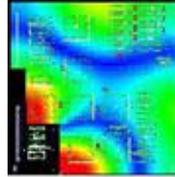


EMI Simulation Software



EMISStream

EMISStream is an EMI design rule check and plane resonance analysis software from NEC. It has 15 important EMI design rule check and also speedy plane resonance analysis with PEEC method. It also has a far-field EMI estimation and ESD rule check as well.

EMISStream

EMI Suppression Support Tool for PCB



EMISStream is an EMI suppression support tool developed by NEC that can decrease undesirable EMI generated from PCB at an early design stage. EMI Design Rule Check scans your board against 15 rules and lists errors in order of priority, allowing time-efficient noise countermeasures. Power/ Ground Resonance Analysis shows you the hot spots on the board, enabling optimized capacitor placement to reduce resonance.

Major electronics manufacturers worldwide, including NASA, are using EMISStream to significantly decrease the time and cost spent on the design and evaluation process.

What is EMISStream?

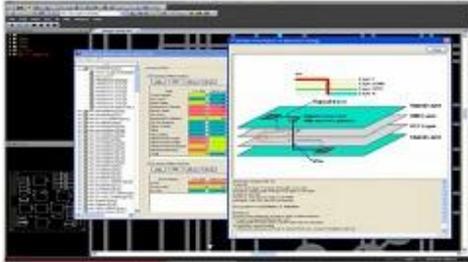
EMISStream is an EMI Design Rule Check and Plane Resonance Analysis tool that can suppress undesirable EMI generated from PCB. By eliminating possible EMI issues at the initial design stage, EMISStream will improve efficiency, significantly decrease time spent on the evaluation process, and enable rapid time-to-market.

Many choose to use EMISStream for its user-friendly interface, easy 4-step setup, speedy analysis, and seamless work flow with multiple CAD layout interfaces.



[The Noise Avenger - Life after EMISStream](#)

[Learn how EMISStream will help you suppress undesirable EMI from PCB.](#)



[EMISStream Demo Video](#)

EMISStream Key Functions and Options

EMI Rule Check

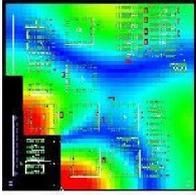


EMISStream was developed by engineers at NEC who were facing EMI problems with their own products and research. EMISStream is a result of research and development by these engineers seeking a solution for their real-world EMI problems.

Over 150 rules were investigated, and were boiled down to 15 critical rules.

- [More](#)

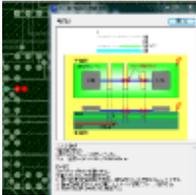
Power/ Ground Resonance Analysis



EMI is easily increased if resonance occurs between the power and ground planes. The power and ground plane resonance analysis function takes into account plane shapes, capacitors, and distance between the power/ground planes to analyze resonance based on the PEEC (Partial Element Equivalent Circuit) method.

- [More](#)

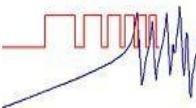
ESD Rule Check Option



A discharge can occur when an electrically charged object, including a human body, touches an electronic device. This phenomenon, called ESD (electrostatic discharge), can cause malfunction and failure of electronic devices. EMISStream ESD Rule Check Option will detect areas where ESD tolerance levels are low on a PCB and offer suggestions for solutions.

- [More](#)

Power Integrity (PI) Analysis Option



Power voltage drops related to advanced semiconductor technologies have been increasing, and countermeasures for suppressing undesirable electromagnetic waves caused by IC malfunction have been gaining attention. This function allows you to verify capacitor location, number of pieces, and capacitance value in order to suppress this problem.

- [More](#)

- *EMISStream and PISStream are either registered trademarks or trademarks of NEC Solution Innovators, Ltd. in the United States and/or other countries.