

# CAM & Engineering Offerings

## NEW InCAM™

CAM

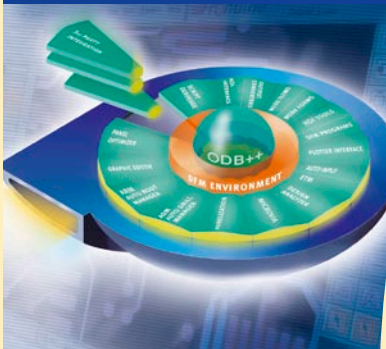


### *A new wave in HDI and IC packaging pre-production CAM*

- Fast, high-precision CAM
- Dedicated DFM and analysis for HDI and IC packaging
- Outstanding data integrity and fault indication
- Collaborative and secure work environment
- Streamlined user interface; easy-to-use tools

## Genesis2000

CAM



### *The leading CAM solution for rigid multilayer PCBs*

- Integrates design analysis, tooling and workflow management
- Cuts cycle time and increases yields using powerful plug-in DFM programs
- Synchronizes communication between design and assembly
- Easy integration with engineering and production

*Over 7,000 seats worldwide!*

## GenFlex™

CAM



### *The complete CAM solution for flex and rigid-flex manufacturing*

- State-of-the-art analysis and editing for flexible circuit boards
- Quick global revision via dedicated DFM tools
- Automatic flex panelization to maximize utilization and yield
- ODB++ data format for seamless integration with design and assembly
- Optimal operator efficiency and speed
- Minimal revisions, maximum yields

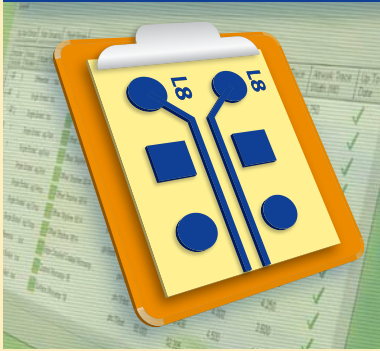
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PCB SOLUTIONS

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# InCoupon™

Engineering



## Automatic impedance coupon generator

- Reduced CAM and engineering cycle time
- Impedance testing in the early production stages
- Generated coupons meet all DRC, signal integrity and testability requirements
- Smallest possible coupon footprint on the panel
- Coupon design transformed from an expert task to a standard operation
- CAM and engineering data integration for efficient coupon design

# InStack™

Engineering

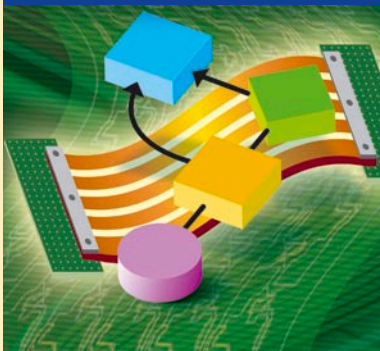


## Automatic stackup designer

- Automatic stackup design reduces design time from hours to minutes
- Minimal material costs
- Job information automatically extracted from CAM
- Seamless integration with impedance software
- High quality stackup design documentation

# InPlan™ Flex

Engineering

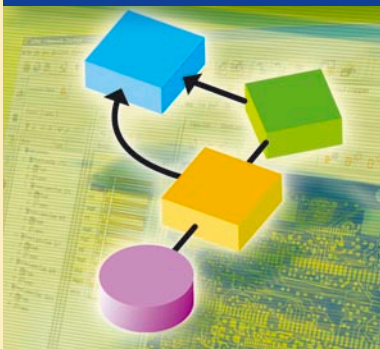


## Automated PCB engineering for rigid, flex and rigid-flex boards

- State-of-the-art, unified engineering toolkit for rigid, flex and rigid-flex boards
- Support for rigid and flex materials
- Faster engineering cycle time; dramatically reduced costs
- Efficient materials tooling management; BOM, Traveler and CAM instructions
- Automatic flex panelization to maximize utilization and yield
- Proven CAM and ERP integration

# InPlan™

Engineering



## Automatic engineering system

- State-of-the-art, unified engineering toolkit for rigid boards
- Front end (CAM) and back end (ERP) system integration
- Process knowledge with electronic rules and specs
- Engineering concurrency and multi-site operations
- Outputs BOM, Traveler and CAM instructions
- Optimal stackup design for lowest possible material costs
- Revision control for effective change management

**Selected by market leaders!**

[www.frontline-pcb.com](http://www.frontline-pcb.com)

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