

# InStack

Automatic Stackup Designer



## The ideal solution for Complex & High Layer **Stackup**

- Design stackup automatically
- Minimize your material cost
- Reduce stackup design time from hours to minutes
- Extract job information automatically from CAM
- Produce high quality stackup design documentation
- Use your Impedance Modeler of choice
- Ensure manufacturability, tighten tolerances

 **Frontline**

PCB SOLUTIONS  
An Orbotech Valor Company

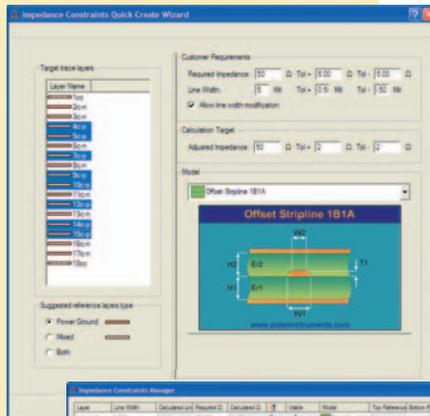
## Instant stackup design optimization



InStack is a standalone InPlan™ module

**Stackup is THE most challenging task in high layer and complex PCB pre-production. In an instant, InStack helps you select the most cost-efficient material set available that meets your thickness and impedance constraints. InStack replaces calculators, tables, estimates and guesswork with fast, high-quality stackup design via one unified tool.**

Impedance Constraint Quick Create Wizard

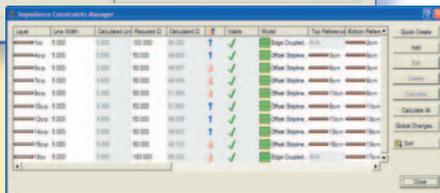


### Minimize costs

InStack provides you with multiple stackup solutions at the push of a button. In an instant, InStack helps you select the most cost-efficient material set available that meets your thickness and impedance constraints. With InStack, you can start cutting your material costs right away.

### Cut cycle-time

InStack does in an instant what used to take an expert HOURS of hard work to accomplish. InStack allows you to immediately identify the correct and most cost-effective construction solutions from a range of alternatives.



Impedance Constraint Manager

### Preserve knowledge base

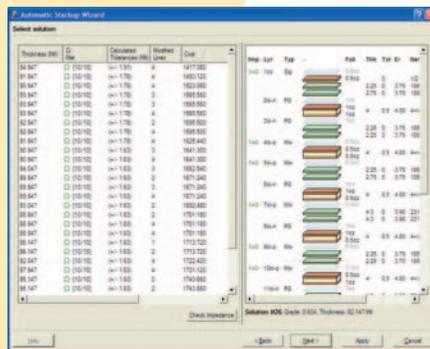
InStack allows you to save your preferred solutions as templates for upcoming jobs. These templates help you minimize the effects of staff turnover by permanently preserving your knowledge base.

### Not an expert task anymore

InStack is so simple to operate; non-experts can do it with ease, freeing your highly trained engineers for tasks that really require their expertise.

### Use Impedance Modeler of choice

InStack integrates easily with the industry's leading impedance solvers. InStack's user-friendly GUI allows users to interact directly with your selected impedance solver engine.



Automatic Stackup Wizard

### Maximize precision, reduce deviation

InStack ensures more accurate solutions. It extracts true layer copper percentage directly from CAM data to accurately compute the amount of resin flow of B-stage dielectrics. It takes solder masks, plating thicknesses and even material cleaning processes into consideration in calculating thicknesses. InStack uses rules and manufacturing specs to keep stackup designs within manufacturing tolerances. With InStack you meet your customers' requirements the first time, every time!

- **Tighten tolerances to ensure manufacturability**
- **Minimize deviations of target impedance & line width**
- **Eliminate resin-starved solutions**
- **Create and use stackup templates**
- **View all combinations sorted by cost**
- **Issue graphical stackup documentation**

### Minimal System Requirements:

#### Platforms

Windows 2000, Windows XP

**Memory** 512 MB

**CPU** 2.4 GHz