

ICD Releases HDI Designer Edition of Stackup Planner



Brisbane Australia, August 17, 2011 - In-Circuit Design Pty Ltd (ICD), Australia, developer of the ICD Stackup Planner, has released a new version of the ICD Stackup Planner - HDI Designer Edition that now includes Multiple Differential Pair definitions per layer. "This is the first Impedance Calculator / Stackup Planner that allows the user to setup as many different impedances as you like on the one layer or every layer of the stackup," said Barry Olney, Managing Director, ICD.

These days it is quite common to have, say, differential DDR2 clocks, USB pairs, PCI express pairs, etc., all sharing the same layers on HDI boards. Until now, the user had to calculate each impedance separately and somehow display the results meaningfully to fellow designers and the PCB fabricator.

The new HDI Designer Edition addresses these issues. Simply select the desired number of layers 2 to 16 from the default stackups (or create your own unlimited layer stackup) and start adding Differential Pairs. As you insert a new Differential Pair, the Stackup Planner automatically calculates both the single ended (characteristic) and differential impedance of each layer.

For example, USB differential pairs have to be routed to 90 ohms impedance so the user can adjust the trace thickness and clearance to achieve the desired 90 ohms. And, the DDR2 clocks have to be routed to 100 ohms differential impedance so the user selects the DDR2 TAB and again adjusts the variables to achieve the desired 100 ohms. But the basic structure of the substrate remains the same - the dielectric thickness, copper thickness etc. The user can keep inserting pairs, renaming and defining values. All of these values can then be exported to CVS to include in an Excel Spreadsheet detailing all differential pairs on all layers of the PCB.

About In-Circuit Design Pty Ltd

In-Circuit Design Pty Ltd, based in Brisbane Australia, develops the ICD Stackup Planner software, is a PCB Design Service Bureau and specialist in Board level Simulations. For further information or to download a free evaluation of the software, please visit www.icd.com.au.