# Wow! Was it this easy?!

Tool for Real-Time Thermal Simulation of Printed Circuit Boards



#### www.cradle-cfd.com/picls/

Non-experts can start thermal analysis right away with easy operation in 2D and real-time results

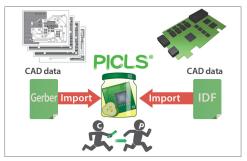
#### Advantages

- Easy to use
- (Operation in 2D, integrated GUI for pre- and post-processing) • Inexpensive
- Capable of real-time analysis

## Thermal countermeasures using PICLS

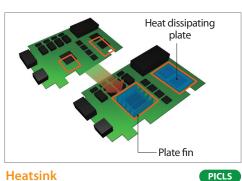
- Checking the layout of components to avoid interference of heat between them
- Troubleshooting thermal issues of current products
- Considering heat release depending on a wiring pattern (coverage ratio)
- Examining the location and the number of thermal vias
- Examining the performance of a heatsink
- Examining the size of a PCB
- Examining the number of layers and the thickness of copper foil
- Considering natural/forced air cooling
- Considering radiant heat
- Considering heatsinks (number of fins, size)
- Examining heat dissipation performances by connection to enclosure
- Considering PCB mounting environment

# Main features of PICLS and PICLS Lite

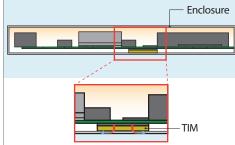


PICLS

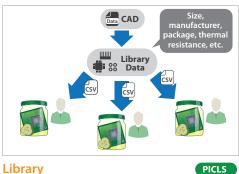
External file interface You can import IDF 3.0 and Gerber data



Heatsink You can allocate and display parts such as plate fins and heat dissipation plates

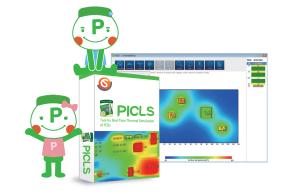


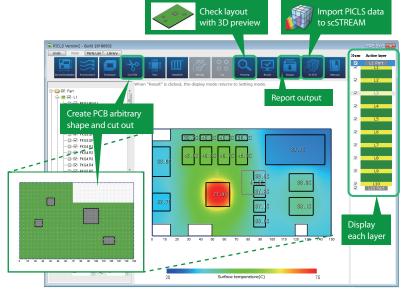
Consideration of simple enclosure PICLS You can consider heat dissipation by connection to enclosure

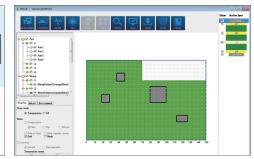


Library You can register and reuse created parts to the library









## **Cutting out a PCB**

You can create a PCB of arbitrary shape using cut-out function



