

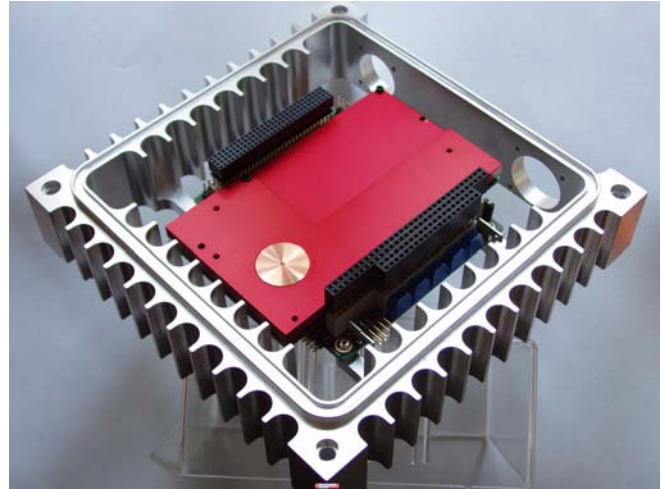
## PC/104 FLUTED RING HOUSINGS

### FEATURES

Sturdy Aluminum Chassis  
Robust Heat Sink  
O-Ring Seal Standard  
EMI Tight  
Single-Height or Dual Height (pictured)  
PC/104 or PC/104-Plus

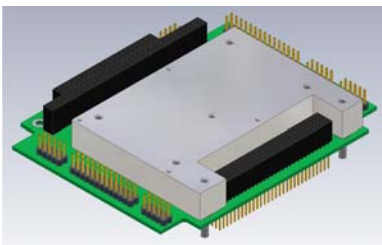
### APPLICATIONS

Robotic Vehicles  
Unmanned Aircraft

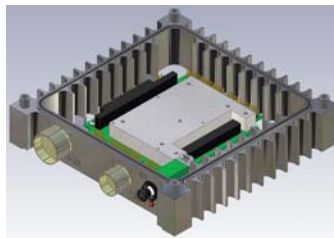


### GENERAL DESCRIPTION

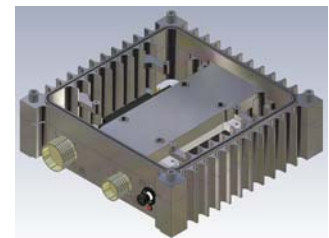
The PC/104-Plus concept of self-stacking electronics modules can provide enormous capability in a small volume. However the removal of heat generated by some of the more power-hungry modules is a concern faced by potential users. Lakenheath understands this problem and can provide a solution. Lakenheath begins by examining the existing thermal paths built in to your electronics boards. Next, we develop detailed CAD models of the boards so that these can be emplaced on our fluted ring models. In this way, we can quickly develop efficient thermally conductive paths for heat transfer to the fluted rings.



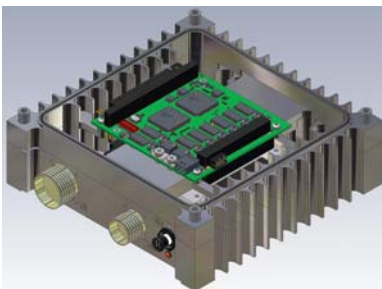
PC/104-Plus SBC with existing heat spreader



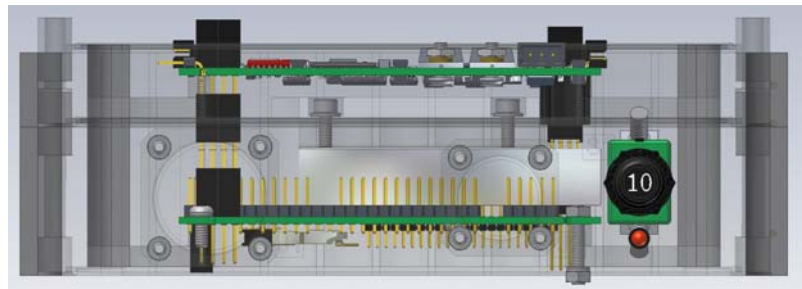
SBC mounted in dual-height ring



Single-height ring with integrated heat spreader

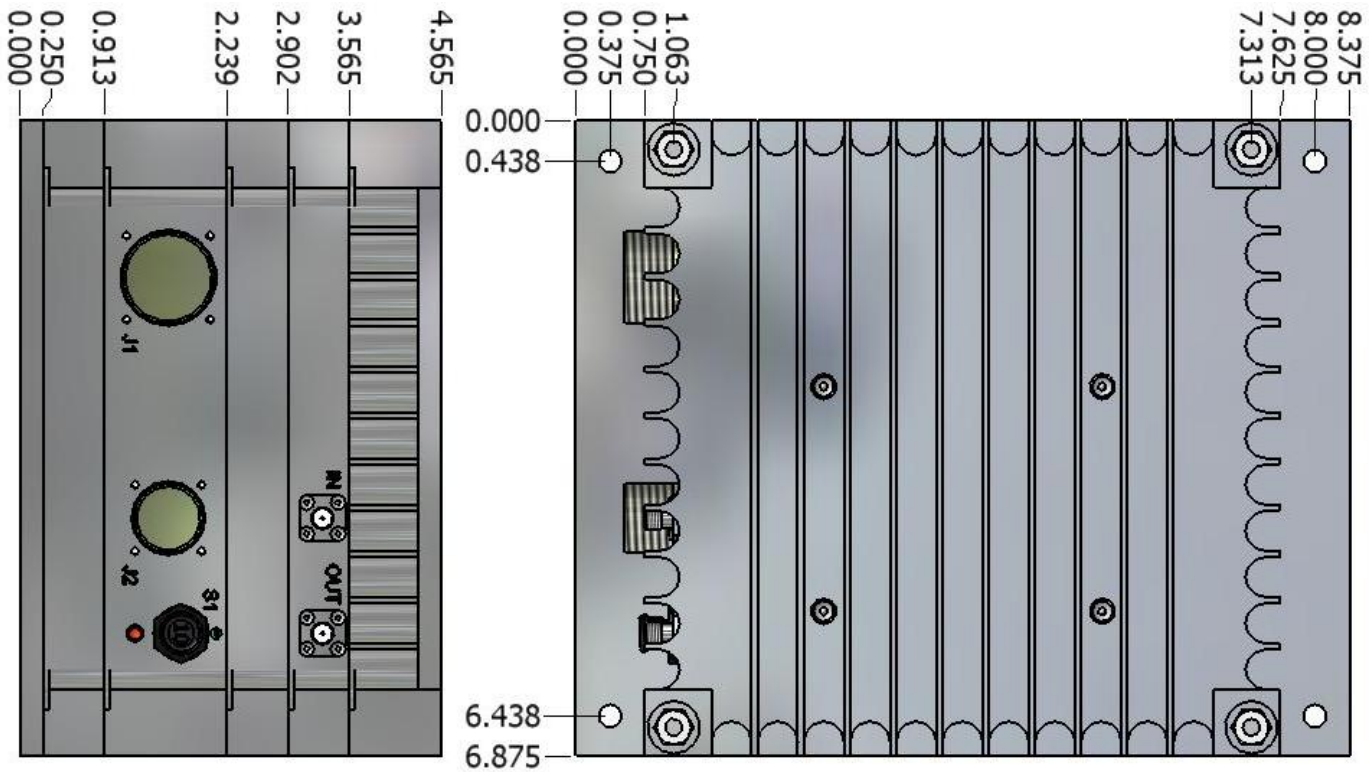


Integrated assembly with second PC/104-Plus card



See-through view of integrated stack-up

**EXAMPLE STACK-UP MECHANICAL DIMENSIONS (inches)**



**FLUTED RING PROPERTIES**

Material: Alloy 6061-T6 Aluminum

Standard Finish: Tumble and Clear Chromate per MIL-C-5541 CLASS 1A.

Part	Mass (lbs) [kg]
LED-MP-2100, Standard Base	0.79 [0.36]
LED-MP-2200, Standard Single-Height Ring	0.62 [0.28]
LED-MP-2300, Standard Dual-Height Ring	1.23 [0.56]
LED-MP-2400, Standard Lid	0.92 [0.42]

Lakenheath Electronics Design reserves the right to change the specifications contained in this document without notice.