

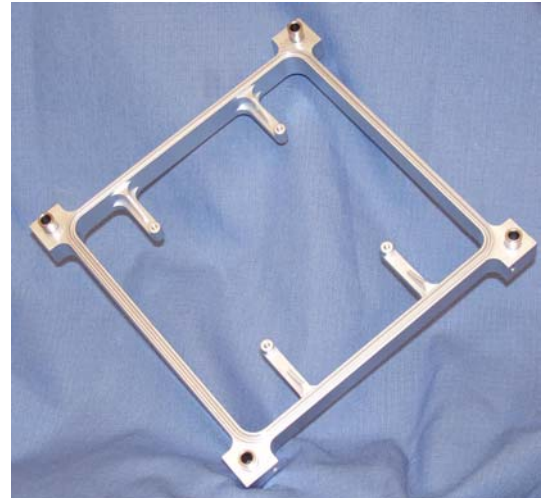
PC/104 STANDARD RING ENCLOSURES

FEATURES

- Sturdy Aluminum Chassis
- Guide Pins Protect PC/104 Busses
- O-Ring Environmental Seal with Metal Mesh EMI Seal
- Single, Dual and Triple Height Versions
- PC/104 or PC/104-Plus
- Compatible with Lakenheath's EPIC-to-PC/104 System

APPLICATIONS

- Embedded Systems
- Robotic Vehicles
- Unmanned Aircraft



GENERAL DESCRIPTION

The PC/104 and PC/104-Plus concept of self-stacking electronics modules can provide enormous capability in a small volume. Lakenheath's PC/104 Standard Ring Enclosures are a ruggedized solution for the protection of embedded electronics against harsh environments. Silicone gel o-rings with an integral metal mesh keep moisture from entering the stack while simultaneously protecting against EMI. Guide pins enable blind-mating of the PC/104 busses as boards are stacked together. Let Lakenheath customize your rings for particular connector requirements. We can also help you with thermal management by providing integrated heat spreaders for components dissipating high power.



Single-Height



Dual-Height



Triple-Height



Electronics Stack

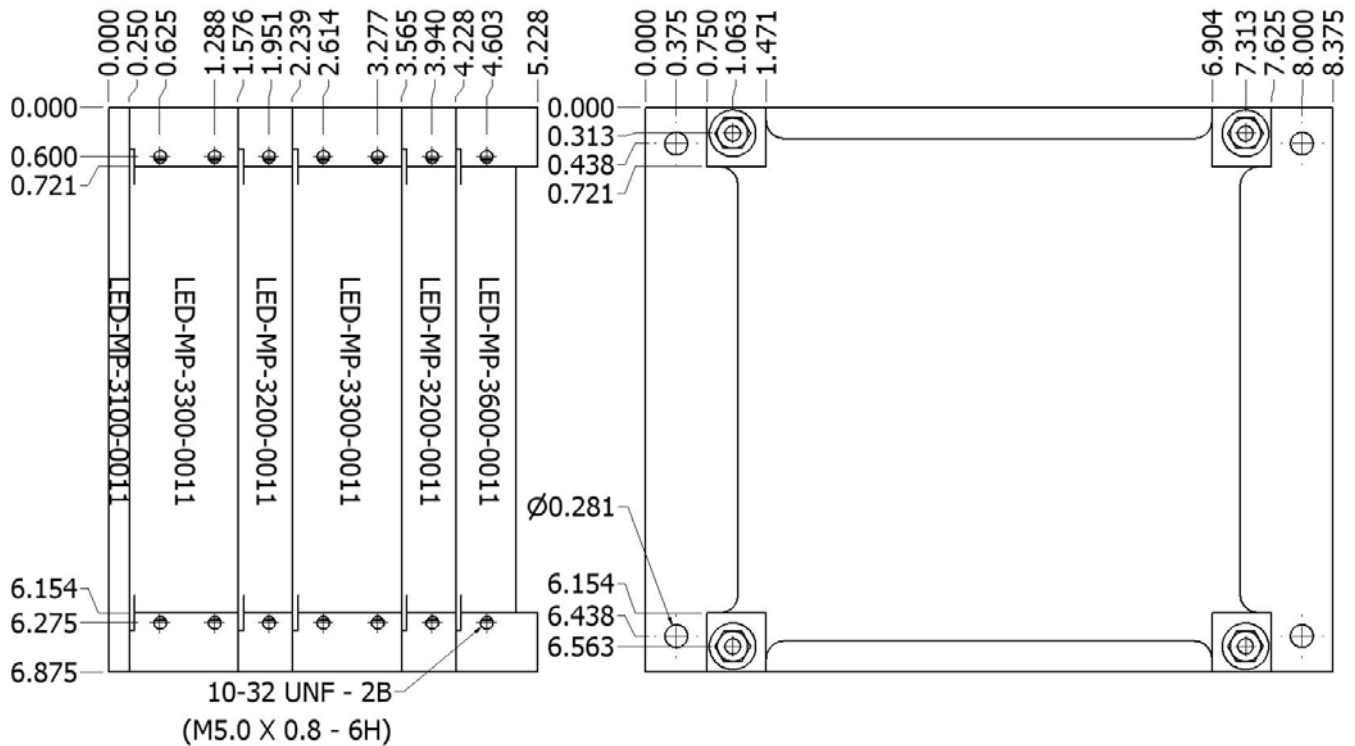


Electronics Stack with Integrated Heat Spreader



Waterproof Embedded Camera System

EXAMPLE RING STACK-UP WITH OPTIONAL SIDE-MOUNT HOLES
MECHANICAL DIMENSIONS (inches)



STANDARD RING PROPERTIES

Material: Alloy 6061-T6 Aluminum

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



RoHS Compliant Finish

STANDARD RING PART NUMBERS (without optional side-mount holes)

Part	Mass (lbs) [kg] (inc. hardware)
LED-MP-3100-0011, Std Base	1.59 [0.72]
LED-MP-3200-0011, Std Single-Height Ring	0.48 [0.22]
LED-MP-3300-0011, Std Dual-Height Ring	0.91 [0.41]
LED-MP-3400-0011, Std Triple-Height Ring	1.34 [0.61]
LED-MP-3600-0011, Std Lid	0.66 [0.30]

Included hardware:

- 18-8 stainless steel bushings (4 per base, 4 per ring)
- 18-8 stainless steel 10-32 threaded rod (4 per stack)
- 18-8 stainless steel 10-32 nuts (8 per stack)
- 18-8 stainless steel #10 washers (8 per stack)
- 18-8 stainless steel #10 lock washers (8 per stack)
- Silicone gel/metal mesh o-ring (1 per base, 1 per ring)

Connector cut-outs, integrated heat spreaders and other custom options are at additional cost.

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