

Vertiport Landing Aid

Ground Beacon

- Simple Broadcast only in 5 Ghz band
- One or multiple CDMA signals phase locked
 - Orthogonal codes
 - High chipping rate (e.g. 50 Mchips per second)
- Simple near hemispherical antenna or 4 quadrant Antenna Array – aligned with cardinal points
- Little or no software in beacon
- Self monitored
- Low profile unit, could literally be 2 in thick and placed at the touchdown point with lithium battery backup.

Airborne Receiver

- 4 (or more) Element Array
- Measures bearing to/from beacon in heliport frame
 - Based on 4 quadrant Beacon – aligned with cardinal points
- Measures Direction of Arrival of strongest beacon signal in aircraft frame
- Altitude enroute through FAF via baro
- Altitude for final descent via Radio or Laser altimeter

Broadcast Signal

