

# SNC<sup>®</sup>

## Differential GPS Ground Station



Sierra Nevada Corporation's (SNC) Differential GPS Ground System provides precision takeoff, landing and taxi guidance for all types of unmanned aircraft, whether fixed-base or deployed. Our DGPS architecture is scalable, robust and provides a guaranteed level of integrity and continuity. DGPS offers an unprecedented level of recovery availability to significantly reduce the probability of loss of capability during the takeoff and landing phases of UAS operation.



# Differential GPS Ground Station

## Capabilities

- Landing guidance
- Takeoff guidance
- Taxi guidance
- Missed approach & back course guidance
- Jamming detection



Portable & Sheltered Configuration



Portable & Sheltered Configuration



GPS Reference Receiver Antenna



VHF Datalink Antenna

## Differential GPS Element

- Supports multiple signal formats: SCAT I, GBAS, Prototype Military JPALS or customer optional formats
- Land-based navigation sensor accuracy: within 2 feet horizontally and 3 feet vertically
- Landing surface to 150 miles line-of-sight coverage (standard VHF datalink)
- Datalink options: Internationally approved VHF datalink or UHF Military Band (standard equipment) or customer specified datalink (option)
- Omni-directional coverage allows for custom design of departure and approach paths
- If customer supplies datalink, the **Reference Subsystem** (plus **UPS**) is all that is required of the rack or transit case items



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