

DGPS

Differential GPS Ground Station

Portable Configuration



Sheltered Configuration



Sierra Nevada Corporation's (SNC) Differential GPS Ground System provides precision or automatic take-off, landing and taxi guidance for all types of unmanned aircraft, whether fixed-base, deployed or aboard ships. 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 take-off and landing phases of UAS operation.



DGPS

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Capabilities

- Landing Guidance
- Takoff Guidance
- Taxi Guidance
- Missed approach and back course guidance

Features

Differential GPS Element

- Signal formats supported:
 - SCAT I
 - Civil LAAS/GBAS
 - Prototype Military JPALS
 - Customer specified formats (Options)
- Land-based navigation sensor accuracy within:
 - 2 feet horizontal
 - 3 feet vertical
- Ship-based navigation sensor accuracy within:
 - 1.5 feet horizontal
 - 2 feet vertical
- Coverage
 - Landing surface to 150 miles line-of-site (Standard VHF data link)
- Data link options
 - Internationally approved VHF data link (Standard equipment)
 - Customer specified data link (Option)
- Omni-directional coverage allows for custom design of departure and approach paths

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VHF Data Link Antenna



GPS Reference Receiver Antenna