

DT-ATLS

Dual-Thread Automatic Takeoff and Landing System



DGPS Ground Station



MMW Tactical Automatic Landing System



Sierra Nevada Corporation's (SNC) Dual-Thread Automatic Take off and Landing System (DT-ATLS) provides precision landing and taxi guidance for all types of unmanned aircraft, whether fixed-base, deployed or aboard ships. Our DT-ATLS architecture is scalable, robust and provides a guaranteed level of integrity and continuity. DT-ATLS 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.

DT-ATLS

Dual-Thread Automatic Takeoff and Landing System

Features

- Provides automatic taxi, takeoff and landing guidance
- DGPS and MMW Track Radar provides sub-meter accuracy
- Dual thread system ensures extreme high levels of integrity, continuity and availability for launch and recovery, even during GPS outages
- Land or sea based operations
- Supports multiple runways and multiple aircraft
- Flexible architecture for integration with any tactical UAV Systems

Description

DGPS Ground Subsystem

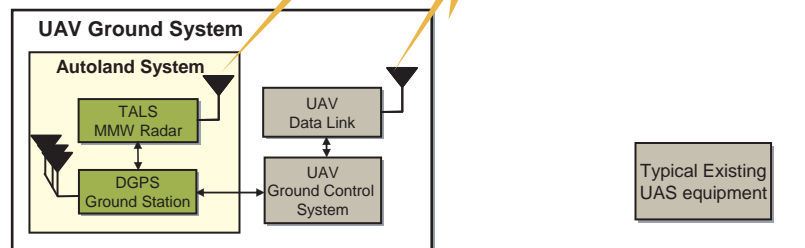
- Based on SNC's LAAS/SCAT I/JPALS DGPS Architecture
- Guaranteed levels of integrity and continuity
- SAASM GPS receivers (Non SAASM option available)
- Uses existing UAV data link (other data link options available)

MMW Track Subsystem

- Portable ground-based unit
- Locates and tracks airborne transponder
- High bandwidth tracking loops to cover touchdown and rollout
- RS-422 Interface Standard, Other options available
- Height (deployed configuration):
 - 25 inches (63.5 cm)
- Weight:
 - Pedestal Group: 95 pounds (43 kg)
 - Control Unit: 48 pounds (22 kg)
- Power: 110 VAC, 60 Hz, Less than 240 W

MMW Tactical Automatic Landing System

- Common interfaces across Ground Control Stations and UAVs
- Stowage in two-man portable ruggedized field containers
- System elements in production for numerous customers



DGPS Ground Station



DT-ATLS APU (Airborne Processor Unit)

MMW Airborne Transponder Subsystem

- Provides point source for precision tracking
- Less than 3 pounds (1.4kg)
- Size: 2.5" x 3.5" x 7.5" (6.4 cm x 8.9 cm x 19.1 cm)
- Power: 18 VDC to 32 VDC



Airborne Transponder Subsystem



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