

SNC[®]

AN/APN-246 ACLS Radar Beacon



Automatic Carrier Landing System (ACLS) Beacon

SNC's ACLS Beacon is the primary airborne component of the carrier's precision approach landing system (PALS) – the only fully automated, all-weather, contested environment approach landing aid for carrier aircraft.

The AN/APN-246 is an updated functional replacement for the AN/APN-245, with added features. The ACLS Radar Beacon enables at-range acquisition and precision guidance of equipped aircraft to the carrier deck in all-weather conditions and GPS denied/contested environments by providing a fixed, "point-source" radar return that eliminates radar scintillation noise.

AN/APN-246

Automatic Carrier Landing System (ACLS) Beacon

HIGHLIGHTS

- The APN-246 is a form fit functional replacement for the APN-245 ACLS beacon set, but with added features for a dynamic & changing battlefield environment including GPS-denied operations in a contested environment
- Easily integrates into existing F/A-18 E/F/G aircraft & supports integration into other carrier aircraft like the E-2D & crewed & uncrewed aircraft
- The APN-246 provides a logistically supportable design for the air-wing of the future.
- The APN-246 supports the ability to add future capabilities

PHYSICAL SPECS

Ka Band Receiver

• Dimensions	9.5" x 7.5" x 3"
• Weight	7 lbs
• Power	69 W average

X-Band Transmitter

• Dimensions	7.5" x 7" x 3"
• Weight	6 lbs
• Power	39 W average



ACLS Radar Beacon

FEATURES

AN/APN-246 System offers significant performance improvements

- Updated design meets or exceed new, more stringent aircraft environmental & EMI requirements
- Added a MIL-STD-1553 interface
- Improved detection & tracking in rain
- Beacon provides a Point source that improves tracking accuracy versus skin tracking
- Proven to increase boarding rate
- AGC supports dual channel aircraft tracking of the SPN-46 Radar
- Provides an Operational capability in contested environments
- Integrated power-on, background continuous & commanded Built-In-Test (BIT)

F/A-18 with ACLS Radar Beacon Landing on Aircraft Carrier



444 Salomon Circle | Sparks, NV 89434
775.331.0222 | mst@sncorp.com | sncorp.com

DATA CONTAINED WITHIN THIS DOCUMENT ARE SUBJECT TO CHANGE AT ANY TIME AT SNC'S DISCRETION. | SNC is a trademark of Sierra Nevada Company. ©2024 Sierra Nevada Company, LLC. | WARNING - Exports, sales, and offerings of the products and technologies discussed herein are subject to U.S. Government approval. NAVAIR Public Release SPR 2018-461 Distribution Statement A - Approved for public release; distribution is unlimited.

SNC[®]