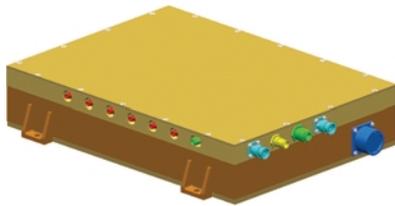




# DIGITAL ANTENNA ELECTRONICS

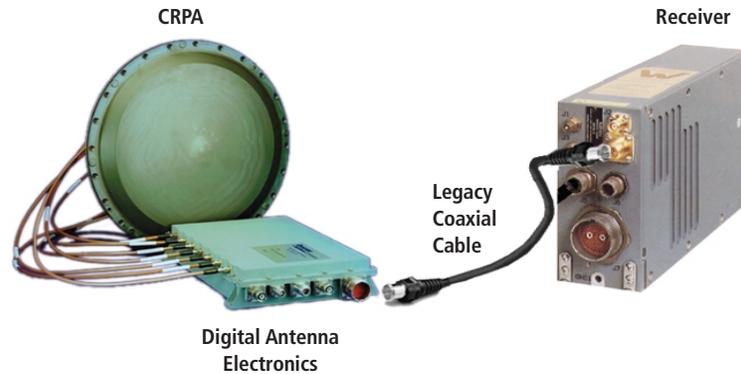


DAE

## DESCRIPTION

The primary near-term solution to meet NAVWAR objectives involves fielding Anti-Jam (AJ) antenna systems on military platforms. Current legacy systems like the GPS Antenna System-1 (GAS-1) are analog systems with AJ capability limited to the formation of spatial nulls in the direction of interferers.

The GPS roadmap for user equipment anticipates a fully digital receiver with nulling/multi-beamsteering processing as a far-term solution to maximize Signal power to Interference plus Noise power Ratio (SINR) to all satellites in view in the presence of multiple jammers. The Digital Antenna Electronics (DAE) provides a near-term solution by using digital signal processing to enhance jammer suppression over legacy AEs and implementing a limited beamsteering capability. The DAE preserves the current GAS-1 AE form, fit and interfaces.



## FEATURES

- ▶ Backward compatible with legacy CRPA installations
- ▶ Upgrade from analog to digital processing
- ▶ Enables increased nulling/limited beamsteering
- ▶ Enhanced RS422 serial interface with receiver for beamsteering, control, and test functions
- ▶ Legacy and modernized GPS signals compatible

## APPLICATIONS

- ▶ Replaces GAS-1 AE, AE-1/1A
- ▶ Used with current and future receivers and CRPAs

## FOR FURTHER INFORMATION CONTACT:

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