

SECURE, ANTI-JAM AIRBORNE COMMUNICATIONS

HARRIS AN/ARC-201D

SINCGARS AIRBORNE RADIO

KEY BENEFITS

Optimized SWaP

Supports future digital battlefield requirements

Compatible with existing SINCGARS Data Modes

The Harris AN/ARC-201D Single Channel Ground and Airborne Radio System (SINCGARS) System Improvement Program (SIP) airborne radio is a reliable, field-proven voice and data battlespace communications system with networking capabilities.

The AN/ARC-201 is a tactical airborne radio subsystem that provides secure, anti-jam voice and data communication. The integration of COMSEC and the Data Rate Adapter (DRA) combines three Line Replaceable Units into one and reduces overall weight of the aircraft.

Additional features such as improved error correction, Enhanced Data Modes (EDMs) (including packet data), more flexible remote control and Global Positioning System (GPS) compatibility allow the Harris Airborne SINCGARS radio to assume a number of new roles supporting future digital battlefield requirements.

The AN/ARC-201 is backwards compatible with existing SINCGARS Data Modes. The EDMs of the radio employ a Reed-Solomon Forward Error Correction technique providing enhanced bit-error-rate performance. The EDM packet data mode supports packet data transfer from the airborne host computer to another airborne platform, or to the groundbased equivalent SINCGARS system. The radio is Enhanced System Improvement Program (ESIP) waveform compatible and provides voice and data packet retransmission capabilities as well as improved noisy channel avoidance for enhanced Frequency Hopping (FH) synchronization.

SPECIFICATIONS FOR: **HARRIS AN/ARC-201D SINCGARS AIRBORNE RADIO**

TRANSMITTER

Power Output	10 watts nominal
Harmonic Suppression	MIL-STD 461A
Transmitter Spurious Responses	100 dB
Frequency Deviation	± 6.5 kHz

RECEIVER

Noise Figure	10 dB
Image Rejection	MIL-STD 461A
IF Rejection	100 dB minimum

POWER

Power Input	10W radio
Primary Power	28 Vdc per MIL-STD 704 (<5 Amps maximum)

PHYSICAL

Dimensions	11.6" length, 5.5" width, 4.1" high
Weight	5.5 lbs

TECHNICAL FEATURES

- Jam-resistant communications
- Voice and data
- Automatic retransmit
- Built-in amplitude homing
- Integrated COMSEC
- Integrated DRA functions:
  - TACFIRE and SINCGARS data modes: 600, 1200, 2400, 4800, 16,000 bps
  - Enhanced packet data modes: 1200, 2400, 4800, 9600, RS-232
  - Packet EDM mode is 16 kbps (only RS-423)
  - 1553B bus provides radio control and GPS data input/output
- Built-in test
- AM-7189A/ARC-compatible
- Six FH presets (including TRANSEC keys)
- Six single channel presets plus manual and cue channels
- Voice and data retransmit in packet
- Improved noisy channel avoidance to enhance FH synchronization
- ESIP waveform compatible
- Situational Awareness
- Replaces bus radio (RT-1478), DRA (CV-3885) and external COMSEC
- MIL-STD-1553B compatible
- Provides 1553B control of AM-7189A/ARC 40W amplifier

INTERFACES

Interfaces with the following avionics equipment

- ID-1351A homing meter
- C-16111, C-6533, C-10414 intercoms
- AM-7189A/ARC 40W power amplifier

FUNCTION

- 30-88 MHz VHF-FM
- 2,320 channels

See Harris Product Catalog for accessories

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Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

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