

AN/ARC-201E Export SINCGARS Airborne Radio

Tactical airborne radio subsystem that provides secure, anti-jam voice and data communication.



The Exelis AN/ARC-201 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 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 combines three Line Replaceable Units (LRUs) into one and reduces overall weight of the aircraft. Additional features such as improved error correction and more flexible remote control allow the Export Airborne SINCGARS radio to assume a number of new roles supporting future digital battlefield requirements.

The ARC-201 is backwards compatible with TACFIRE and 16K data modes. The RT provides improved noisy channel avoidance for enhanced frequency hopping (FH) synchronization.

FUNCTION

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

TECHNICAL FEATURES

- > Jam-resistant communications
- > Voice and data
- > Built-in amplitude homing
- > Integrated COMSEC
- > Integrated Data Rate Adapter (DRA) functions
 - TACFIRE and SINCGARS data modes: 16,000 bps
 - 1553B bus provides radio control
- > Built-in Test
- > AM-7189A/ARC-compatible
- > Six FH presets (including TRANSEC keys)
- > Six single channel presets plus manual and cue channels
- > Improved noisy channel avoidance to enhance FH synchronization
- > Voice compatibility in packet

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SPECIFICATIONS

Interface Characteristics

Interfaces with the following avionics equipment

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

Receiver Characteristics

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

Transmitter Characteristics

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

Input Power

Primary Power	28 Vdc per MIL-STD-704 (<5 amps maximum)
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