



ARC-210 RT-2036(C) NETWORKED COMMUNICATIONS AIRBORNE RADIO

ADVANCED, AIR-GROUND NETWORK CONNECTIVITY

Reliable, secure and advanced communication is key to your success – not only in today's advanced networking battlespace, but also for assurance in future conflicts. The ARC-210 RT-2036(C) networked communications airborne radio is the latest and most capable software-defined radio receiver-transmitter.

The RT-2036(C) is the first airborne software-defined radio to feature MUOS (Mobile User Objective System) SATCOM, enabling unprecedented secure voice and data connectivity around the globe. It also features the latest SATURN ECCM waveform for proven next-generation, frequency-agile coalition interoperability. The RT-2036(C) supports current and future integration ease by offering the choice of MIL-STD-1553 or Ethernet for user data and control.

The RT-2036(C) evolved from our proven AN/ARC-210 advanced communication technologies. It is part of the TruNet™ networked communications solution

family, which also includes ground radios, advanced networking waveforms, apps, ancillaries and services. TruNet ensures secure connectivity between ground and airborne elements across the entire battlespace.

The RT-2036(C) is fully interoperable with earlier airborne V/UHF radio variants from Collins Aerospace. It also offers waveform interoperability with other V/UHF radio systems.

Air, sea or land military forces depend on fully secure communications and interoperability, as do civil agencies supporting homeland security and disaster relief. The RT-2036(C) delivers this mission-critical capability through multiple waveforms, high-speed mobile ad hoc networked communications and beyond-line-of-sight connectivity for data, voice and imagery.

The unit's software-defined radio architecture provides customers with superior versatility and independence.



KEY FEATURES

- Type-1 NSA Certified
- Enables proven, fully secure communication
- Interoperable with Collins Aerospace and non-Collins Aerospace V/UHF radio systems
- Delivers critical, high-speed, ad hoc networked communications between aviation forces and mobile ground forces
- Provides beyond-line-of-sight connectivity for data, voice and imagery
- Enables software/network management
- Offers L band capability and IP-based networking waveforms
- Supports the TruNet networked communications concepts

FREQUENCY RANGE

- Coverage: 30-1850 MHz
- VHF 30-88 MHz close air support
- VHF 108-118 MHz navigation
- VHF 118-137 MHz air traffic control
- VHF 137-156 MHz land mobile
- VHF 156-174 MHz maritime
- UHF 225-512 MHz military/networking/homeland defense
- UHF 764-805, 806-824, 851-869, 869-902, 935-941 MHz (public safety bands)
- L band 1250-1450, 1755-1850 MHz (military networking)

CHANNEL BANDWIDTHS

5 kHz, 8.33 kHz, 12.5 kHz, 25 kHz, 1.2 MHz, 5 MHz, 10 MHz, 30 MHz and software definable

TUNING

1.25 kHz, 8.33 kHz increments

TRANSMIT OUTPUT POWER

- AM: 10 W-15 W (30-400 MHz)
- FM/PM: 15 W-23 W (30-450 MHz)
- FM: 5 W \pm 1 dB (450-512, 764-805, 806-824, 851-869, 896-902, 935-941 MHz)
- FM/PM: 20 W (1250-1450, 1755-1850 MHz)
- AM-7642 125 W PEP/50 W average for SATCOM/MUOS

EMBEDDED MODERNIZED COMSEC

- Tactical Secure Voice, V2
- SCIP and HAPE enabled
- KY-58
- KYV-5 (ANDVT)
- KY-100
- KG-84A/C
- KGV-11
- Thornton Smart Fill
- Fascinator (FED-STD-1023)

SATCOM

- Dedicated: MIL-STD-188-181B
- 5 kHz DAMA: MIL-STD-188-182A
- 25 kHz DAMA: MIL-STD-188-183A
- Integrated waveform: MIL-STD-188-181C/-183B
- MUOS MIL-STD-188-187

WAVEFORM OPTIONS

- SINGARS/ESIP
- HAVE QUICK I/HAVE QUICK IIA
- SATURN Edition 3
- Joint Precision Approach and Landing System (JPALS)
- MIL-STD-188-220 B/C/D w/change 1 Combat Net Radio
- Scan (four channel)
- V/UHF LOS: AM voice/data AM/FM voice/data
- ATC (8.33 kHz and 25 kHz channels)

with embedded FM immunity

- Link 11 with Smart Mount
- Public Safety IAW TIA-603-C, including CTCSS and CDCSS

FUTURE GROWTH

- TSV-2 Suite B
- APCO 25
- Networking waveforms

ANCILLARY EQUIPMENT

- Full-size Remote Control Unit C-12561B
- Half-size Remote Control Unit C-12719A
- High Power Amplifier AM-7642
- LNA/Triplexer MX-12366
- Isolated and Low Profile Mount
- Networking smart mount
- 994M-4 Link 11 Smart Mount
- 994M-4A Link 11 Smart Mount (isolated)

Specifications subject to change without notice.

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