



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

SECURE, VERSATILE AND INDEPENDENT

Advanced air-ground network connectivity

Reliable and secure communication is essential in today's battlespace – and interoperability is critical for future conflict assurance.

Collins Aerospace ARC-210 RT-2036(C) networked communications airborne radio delivers mission-critical capabilities through multiple waveforms, high-speed ability and beyond-line-of-sight connectivity for data, voice and imagery. The software-defined radio architecture provides unprecedented versatility and independence.

With Mobile User Objective System (MUOS) satellite communications (SATCOM), Collins RT-2036(C) enables secure voice and data connectivity

around the globe. It features second-generation Anti-jam Tactical UHF Radio for NATO (SATURN) electronic counter-countermeasure (ECCM) waveforms for frequency-agile coalition interoperability. To support ease-of-integration, RT-2036(C) offers a choice of MIL-STD-1553 or Ethernet for user data and control, and is compatible with earlier Collins airborne V/UHF radios.

Collins RT-2036(C) evolved from our proven AN/ARC-210 technologies and is part of the TruNet™ networked communications family of ground radios, advanced networking waveforms, apps, ancillaries and services. TruNet solutions ensure secure connectivity between ground and airborne elements across the entire battlespace. Air, sea or land military forces, as well as civil agencies, can depend on Collins RT-2036(C).



KEY FEATURES & BENEFITS

- Type-1 NSA Certified
- Enables proven secure communication
- Interoperable with earlier V/UHF radio systems
- Delivers high-speed, ad hoc air-ground networked communication
- Provides beyond-line-of-sight connectivity for data, voice and imagery
- Enables software and 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 (TSV), V2, Suite A/B
- SCIP and HAIPE-enabled
- KY-58
- KYV-5 (ANDVT)
- KG-84A/C
- KGV-11
- Thornton Smart Fill
- Fascinator (FED-STD-1023)
- Programmable cryptographic sub-system (CSS)

SATCOM

- Dedicated: MIL-STD-188-181BSCIP and HAIPE-enabled
- 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/datae
- ATC (8.33 kHz and 25 kHz channels) with embedded FM immunity
- Link 4A
- Link 11 with Smart Mount
- Public Safety IAW TIA-603-C, including CTCSS and CDCSS

FUTURE GROWTH

- SATURN Edition 4
- TSVCIS 3.1.1/STaC-IS 1.1
- MUOS 3.2.1
- SINGARS 3.1.1
- Radio-based situational awareness (RBSA)
- Advanced Crypto Capability (ACC)
- Voice Priority Over Data (VPOD)
- 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.

**COLLINS AEROSPACE**

800.321.2223 | +1.319.295.5100
 fax: +1.319.378.1172
 learnmore@collins.com
 collinsaerospace.com