

Next-generation capability that fits every mission



Collins Aerospace
An RTX Business

The next-level radio for evolving global needs

Reliable and robust communications are critical to every mission you carry out—not only for the fast-changing environment of the modern battlespace, but also to take advantage of new and evolving technologies.

The Collins Aerospace TruNet™ ARC-210 RT-2036(C) networked communications airborne radio delivers software-defined capabilities. It's designed to stay advanced as needs and missions change.

This powerful radio is in broad use today, providing secure and highly adaptable communications worldwide. It's procurable through normal U.S. government channels and via foreign military sales (FMS). Form, fit and function are backwards compatible, simplifying integration.

Fortify your missions – current and future – with the RT-2036(C).

Capabilities

EXTENDED-RANGE LINE OF SIGHT AND BEYOND LINE OF SIGHT (BLOS)

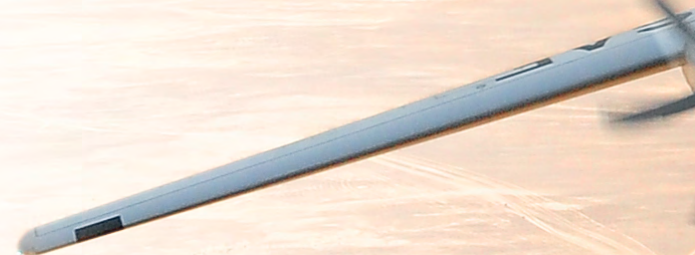
- 30 MHz to 1.8 GHz
- AM/FM VULOS

WAVEFORMS

- Electronic counter-counter measures (ECCM):
 - SATURN Edition 3 and 4
 - HAVE QUICK I and II
 - SINCGARS/ESIP
- SATCOM:
 - MUOS
 - DAMA
 - Integrated waveform
- Additional capabilities:
 - JPALS
 - Warrior Dot
 - Link-4A
 - Link-11/Link-22
 - L-band networking capable

ENCRYPTION

- NSA Type 1
- Embedded TSV-2 modernized encryption





Meet your ideal system

A powerful feature of the radio is its superb past performance and global footprint. With over 60,000 Collins AN/ARC-210 radios deployed across 80 countries and over 180 different platform types, chances are there's an ARC-210 flying near you. The RT-2036(C) is fully interoperable with earlier airborne V/UHF variants from Collins.



Architecture

- Flexibility built in – meets the demands of a quickly evolving threat environment
- Cost-effective – addresses the financial impracticality of continuous hardware changes
- Software Communications Architecture (SCA) 2.2.2, enabling quick porting versus full development
- Data and networking
- Encryption options include: interoperability with external encryptors; and internal encryption capability

System features

- Type 1 NSA certified
- Enables proven, fully secure communication
- Interoperable with Collins and non-Collins V/UHF radio systems
- Delivers critical, high-speed, ad hoc networked communications between aviation forces and mobile ground forces
- Provides BLOS connectivity for data, voice and imagery
- Enables software/network management
- Offers L-band connectivity and IP-based networking waveforms
- Supports the TruNet networked communications concepts
- ARC-210 RT-2036 is the only RT with end-to-end certification for MUOS when using our HPA and LNA/T

Simplified integration and growth

- Form-factor consistency eases integration:
 - 15+ legacy variants
 - RT-2036 to Type 1 COMSEC
- The RT-2036(C) retains the same form factor as the legacy COMSEC that it replaces
 - Software defined

ARC-210 RT-2036 presence beyond airborne

In addition to airborne applications, the ARC-210 family also serves surface ships and ground installations that include:

Shipboard installations

U.S. NAVY

- Littoral combat ship (LCS) 1, LCS 2
- Joint High Speed Vessel (JHSV)
- CVN-69, CVN-72, CVN-77
- DDG-85 – DDG-92
- LHA-6, LHD-8

U.S. COAST GUARD

- U.S. Coast Guard cutters: WMSL 750, 751, 752, 753

INTERNATIONAL

- New Zealand's navy, among others

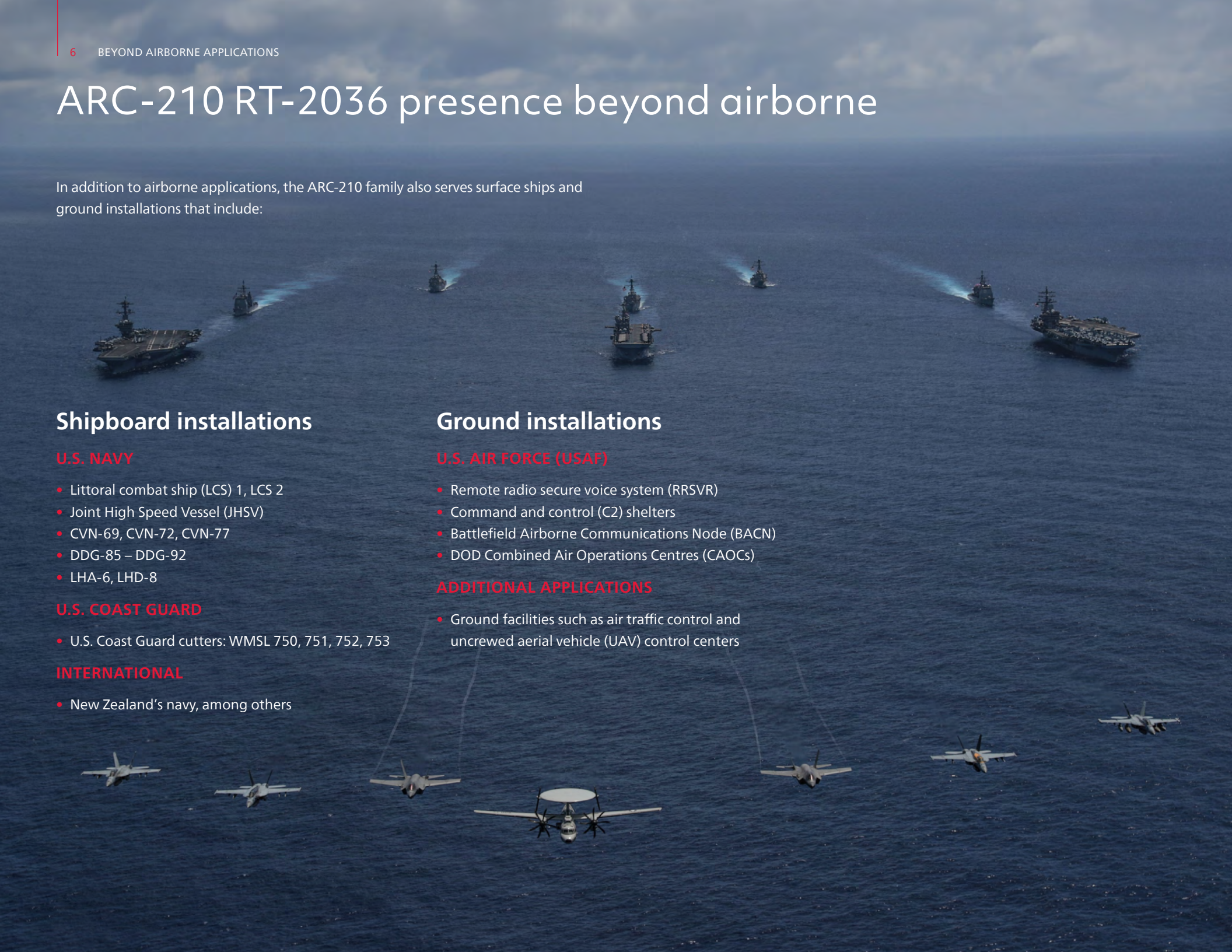
Ground installations

U.S. AIR FORCE (USAF)

- Remote radio secure voice system (RRSVR)
- Command and control (C2) shelters
- Battlefield Airborne Communications Node (BACN)
- DOD Combined Air Operations Centres (CAOCs)

ADDITIONAL APPLICATIONS

- Ground facilities such as air traffic control and uncrewed aerial vehicle (UAV) control centers



Backup whenever you need it

From instructor-led programs to self-directed study, we offer a wide range of training solutions for operators and maintenance personnel that improve job performance and reduce overall program life-cycle costs. Our instructional system design specialists develop comprehensive training solutions that include needs assessments, planning, development and ongoing reinforcement to meet your unique requirements.

Architecture

- Platform integration – engineering support, start to finish
- Training and assistance available onsite
- Standard one-year warranties and extended warranties available
- Performance-based logistic solutions available
- Onsite test and check capability, with onsite repair



A pioneer, always pushing forward

Collins brings nearly 90 years of radio communications innovation experience to the RT-2036(C). Our radio technologies have played critical roles in the success of challenging missions, from making history as part of humankind's first steps on the moon to today's dynamic battlespaces.

Over the last 25 years, more than 60,000 of our ARC-210 radios have served the communications needs of 80 nations on more than 180 platforms. Our customers have put their trust in our technologies and support for decades, and we will continue to earn that trust in the decades ahead.

- We've designed the RT-2036(C) to provide full functional replacement.
- The RT-2036(C)'s full software programmability keeps the radio ready to advance with the changing needs of our customers.
- With the SATURN waveform capability, the RT-2036(C) can meet UHF voice and data communication requirements well into the future.

Part of a powerful family

- TruNet ARC-210 RT-2036(C) networked communications airborne radio
- TruNet AR-1500 networked communications airborne radio
- TruNet AN/PRC-162(V)1 two-channel networking ground radio

The RT-2036(C) is part of the TruNet family of communications solutions. Every element within this family smoothly interoperates with all the others and is designed for true connectivity between your airborne and ground forces across the entire battlespace.

TruNet ARC-210 RT-2036(C)
networked communications
airborne radio (one channel)



TruNet AR-1500 networked
communications airborne radio
(one channel)

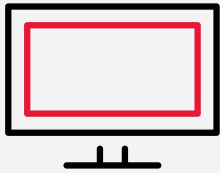


TruNet AN/PRC-162(V)1

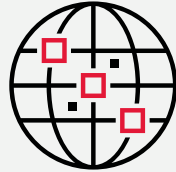


WHERE WE ARE

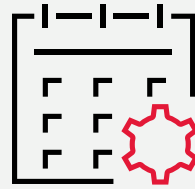
World leader in airborne tactical communications



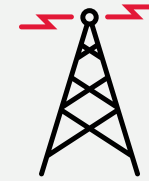
60K+
terminals



>80
nations



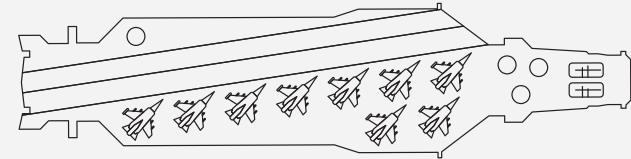
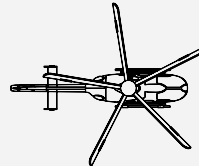
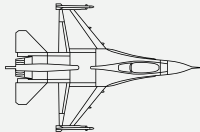
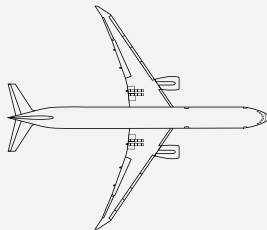
>155K
world-class production
terminals per month



25+ years
airborne software-defined
radio communications

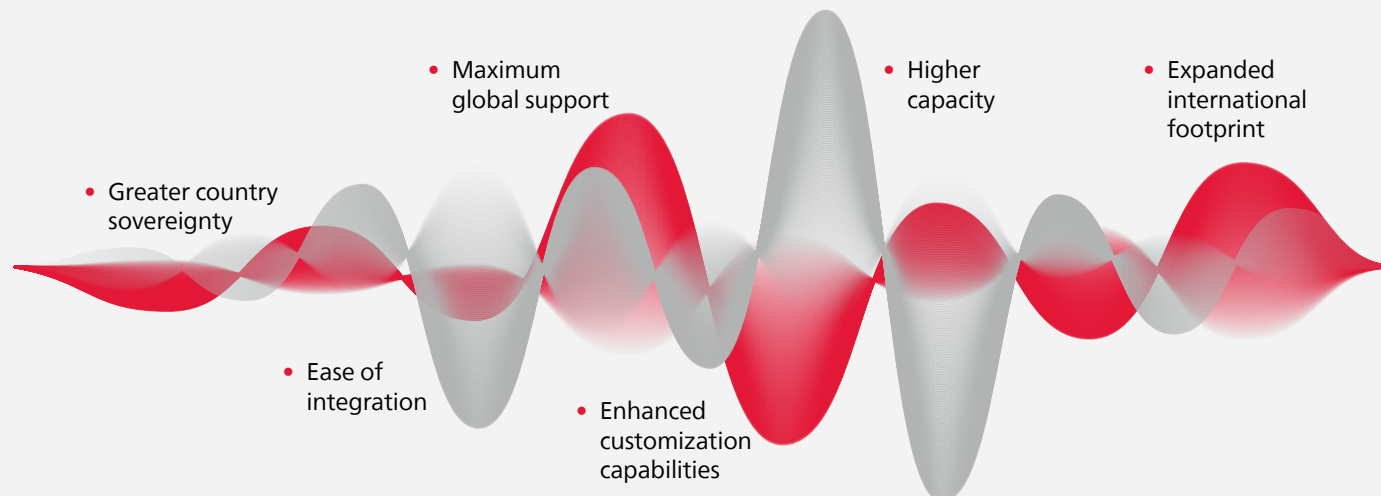
- Wideband networking radios
- Software reprogrammable radios
- Tactical networking

180+
platforms



WHERE WE ARE GOING

System design and waveform integration for the future needs of the U.S. and allied communities



Ancillaries

REMOTE CONTROL UNITS

822-2092-002	Half-size control (C-12719A\379F-22)
822-1276-006	Full-size control (C-12561B\379F-16B)

HIGH-POWER AMPLIFIER

822-2852-001	High-power amplifier (AM-7642)
622-9465-001	HPA mount

LOW-NOISE AMPLIFIER/TRIPLEXER

822-2857-001	Low-noise amplifier/triplexer (MX-12366)
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REPROGRAMMING KITS

822-3614-001	Reprogramming case with 1553 card (RRS-200)
822-3614-002	Reprogramming case without 1553 card (RRS-200)

PC-BASED CONTROLLER SOFTWARE

984-6059-002	Receiver transmitter tool set (RTTS)
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Documentation

946-0PU7-001	Equipment specification
946-0PU8-001	Interface control document (ICD)
987-0081-501	Installation drawing



MOUNTS

622-4934-001	Isolated (MT-4935/ARC)
622-8766-001	Low profile (MT-6567/ARC)
822-1708-001	Link 11 smart mount (994M-4A)
822-1708-002	Link 11 smart mount, isolated (994M-4A)

CONNECTORS

988-9200-003	RT mating connector kit
988-9200-005	C-12561B RCU mating connector kit
988-9200-033	C-12719A RCU mating connector kit
988-9200-034	AM-7642 MUOS HPA mating connector kit
988-9200-008	MX-12366 LNA/T mating connector kit

Trunet ARC-210 RT-2036(C) specifications

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/
Mobile User Objective System (MUOS)

EMBEDDED COMSEC FUNCTIONALITY

- KY-58
- KYV-5 (ANDVT)
- KY-100
- KG-84A/C
- KGV-11
- Thornton Smart Fill
- Fascinator (FED-STD-1023)
- Crypto modernization IAW Tactical Secure Voice
(TSV-4) (Suite A/B)

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

- SINCGARS/ESIP
- HAVE QUICK I and II
- SATURN Edition 3 and 4
- 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, FM voice/data
- ATC (8.33 kHz and 25 kHz channels)
with embedded FM immunity
- Link-11 (with external audio interface)
- Public Safety IAW TIA-603-C, including CTCSS
and CDCSS
- APCO 25

FUTURE GROWTH

- SATURN Enhanced Data Rate (SEDR) Edition 4
- Airborne Networking Waveform (ANW)
- Link 22

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

To learn more, go to
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