



AN/PRC-162(V)1 RT-2048(C)/U TWO-CHANNEL NETWORKING GROUND RADIO

ADVANCED, GROUND-AIR NETWORKING

Right information.
Right place. Right time.

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 and coalition operations.

The TruNet™ AN/PRC-162(V)1 two-channel networking ground radio is the latest and most capable software defined radio (SDR) receiver-transmitter. This is part of the TruNet networked communications solution family, which also includes airborne radios, advanced networking waveforms, apps, ancillaries and services. TruNet ensures secure connectivity between ground and airborne elements across the entire battlespace.

From man-portable to vehicle-mounted, its adaptability enables the PRC-162 to offer unique capabilities while conforming to the latest SDR tenets and architectures. The PRC-162 is interoperable with earlier airborne V/UHF radio variants from Collins Aerospace.

Air, sea or land military forces depend on fully networked, secure communications and interoperability to increase warfighter survivability and effectiveness. Our PRC-162 delivers this mission-critical capability. It offers multiple waveforms – both narrowband and wideband – high-speed mobile ad hoc networked communications, point-to-point data, voice and next-generation SATCOM (MUOS).

The unit's SDR architecture provides customers with superior versatility and independence. It enables legacy radio compatibility and is designed to support future waveform advances.



KEY FEATURES

- Provides two independent communications channels with seamless voice and data route and retransmission functionality
- Enables proven, fully networked and secure communication that spans air, ground and fixed sites
- Delivers high-speed mobile ad hoc networked communications
- Fully integrated MUOS capability (no additional hardware)
- Internal GPS: Military grade (SAASM)



GENERAL

- RT nomenclature: RT-2048(C)/U
- Channel spacing/bandwidth:
 - Narrowband: 8.33 kHz, 12.5 kHz, 25 kHz, 50 kHz
 - Wideband: 1.2 MHz, 5MHz, 10MHz, 20MHz
- Net presets: Up to 999 presets per mission plan
- Internal GPS: SAASM receiver
- Management tool: Joint Enterprise Network Manager (JENM) compatible, ATOM
- Software environment: SCA v2.2.2

PHYSICAL

Dimensions	8.5" W x 3.4" H x 7.8" D (without battery) 21.6cm W x 8.6cm H x 19.81cm D (without battery) 8.5" W x 3.4" H x 13" D (with battery) 21.6cm W x 8.6cm H x 33.02cm D (with battery)
Weight	9.5 lbs (without battery) 13.3 lbs (with battery) 4.3 kg (without battery) 6.03 kg (with battery)

FREQUENCY RANGE

- 30 MHz-1850 MHz
- Narrowband
 - VHF: 30-88 MHz, 118-137 MHz
 - UHF: 225-450 MHz
- SATCOM: 243-318 MHz
- MUOS: 300-380 MHz
- Wideband
 - UHF: 225-450 MHz
 - L-BAND: 1250 - 1450 MHz, 1755-1850 MHz

TUNING

- 1.25 kHz increments

TRANSMIT OUTPUT POWER

- Narrowband: 20W
- SATCOM: 20W
- Wideband: 20W

POWER

- Power input: 10-17 VDC
- Power consumption: 25W Typical Dual Receive, 120W Max 10W Dual TX, 220W Max 20W Dual TX
- Battery types: x90 series batteries

SECURITY

- Encryption: Type I (Suite A/B), NSA Certified TOP SECRET and below
- Encryption modes: KY-57/58 (VINSON), KYV-5 (ANDVT), KG-84, FASCINATOR, HAIBE (PPK, FFV), ACCORDIAN, AES, TSV
- Key storage: Up to 300 per channel
- Modes: DS101, USB

ENVIRONMENTAL

- Shock/Vibration: MIL-STD-810G
- Immersion: 2 meter salt water (MIL-STD-810G)
- Temperature
 - Operating: -40° F to 131° F (-40° C to 55° C)
 - Storage: -60° F to 160° F (-51° C to 71° C)
- EMI/RFI: MIL-STD-461G
- Sand/Dust/Salt/Fog/Rain: MIL-STD-810G

INTERFACES

- External data: USB, Ethernet, Serial (RS-232/RS-485 configurable)
- Audio: Standard 6-pin MIL-DTL-55116 and Vehicle Intercom interface per channel
- Antenna port: Single N-type connector per channel
- Programming: USB (JENM/SKL compatible)
- Function knob: OFF, ON, Z (zeroize)
- Remote control: USB/Ethernet (SNMP), Remote Human-Machine Interface (HMI)

WAVEFORMS

- HAVE QUICK I/II
- SINCGARS/ESIP
- Mobile User Objective System (MUOS)
- Soldier Radio Waveform (SRW)
- WREN TSM
- WREN NB
- AM/FM VULOS (including ATC)
- MIL-STD-188-181B Dedicated
- MIL-STD-188-182A 5K DAMA
- MIL-STD-188-183A 25K DAMA
- MIL-STD-188-181C/183B IW Phase 1
- Ability to host future SCA waveforms

FUTURE GROWTH

- SATURN
- ESSOR
- TETRA
- Bowman
- APC025

ANCILLARIES/KITS

- Two- and four-channel vehicle and transportable mounts
- 50 watt power amplifiers
- Co-site filters
- Antennas
- Cables and connectors

Specifications subject to change without notice.

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