



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

OPTIMIZED PORTABLE GROUND RADIO

Increased range and lighter weight for mission success

Collins AN/PRC-162(V)1 RT-2048(C)/U two-channel dismantled ground networking radio offers increased range and reliability for the soldier communicating in degraded environments. With optimized size, weight and power, this man-portable ground radio operates in close proximity to other radios without interference.

The PRC-162 is interoperable with current and legacy radios. It is also 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.

Air, sea or land military forces depend on fully networked, secure communications and interoperability to increase warfighter effectiveness. Our PRC-162 dismantled ground radio delivers these mission-critical capabilities, all with superior battery consumption lasting up to 12 hours in operational configurations. 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 reliable, secure and advanced communication networking that PRC-162 dismantled ground radio offers is key to your success – not only in today's advanced battlespace but also for assurance in future conflicts and coalition operations.



KEY FEATURES AND BENEFITS

- Optimized size, weight and power
- 20W output power
- Increased range and reliability for degraded environments
- Reduced interference while operating close to other radios
- Superior battery consumption - lasts up to 12 hours in operational configurations

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)
	21.6 cm W x 8.6 cm H x 19.81 cm D (without battery)
	8.5" W x 3.4" H x 13" D (with battery)
	21.6 cm W x 8.6 cm H x 33.02 cm 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

- HAVEQUICK I/II
- SINGARS/ESIP
- Mobile User Objective System (MUOS)
- Soldier Radio Waveform (SRW)
- WREN/TSM
- 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

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