

## assured communications °

## BASE STATION AND REPEATER SYSTEMS

SINGLE/DUAL INTEGRATED,
INTERCHANGEABLE
50-WATT MULTIBAND
SYSTEMS

Long-Range And

Range Extension

Multimission System With

Quick-Dismount Pull-And-

Go Versatility





The Base Stations & Repeaters are integrated, high-performance multiband radio systems using a suite of battle proven and interchangeable components, including the AN/PRC-152(C) SCA-based handheld radio and the same power amplifier used in the AN/VRC-110 Vehicular Systems. For long-range applications and increased communications reliability, these systems provide the necessary 50 watts in the 30 to 90 MHz frequency range, with multiple power output options available in the 90 to 512 MHz band. Flexible wide-ranging AC/DC input power options are also available.

The advanced architecture of the system ensures this mutiband handheld-based system maintains superior performance as a base station or repeater. The AN/PRC-152(C) handheld radio can be quickly removed from the system while remaining powered on during contingency operations.

Covering 30 to 512 MHz, the AN/PRC-152(C) handheld provides SINCGARS, Havequick II, VHF/UHF AM and FM, and MIL-STD-188-181B, with ANDVT voice and data up to 56 kbits/sec. The amplifier features separate VHF and UHF antenna ports with automatic port switching, allowing true multimission capability—the required net is selected via the radio front panel or remote control. Antennas can be preconfigured to support ground communications, ground-to-air, or SATCOM communications. The VHF antenna port provides a 50 watt output from 30 to 90 MHz. The UHF antenna port can be optionally configured for 20 watts from 90 to 512 MHz and 50 watts UHF SATCOM output, reaching aircraft at the horizon and satellites at poor angles.

Other features of the systems include an integrated handheld battery charger (battery remains attached to the radio) with simultaneous operation and charging, hot jerk-and-run capability, LS-671 speaker interface, and advanced heat sinking for an extended-use duty cycle.



## Specifications for the Base Station and Repeater Systems

General

Frequency Range 30-512 MHz

**Power Input** Flexible power inputs with 12-32

VDC and 115 or 230 VAC at 47-400 Hz inputs supported

**Transmission Modes** FM, AM (90-512 MHZ), PSK, CPM

**Tuning Resolution** 10 Hz

Presets 99

Transmitter

Output Power 30-90 MHz: 5, 20 or 50 watts PEP

90-512 MHz: 5 watts PEP,

Optional 20 watts with 50 watts in

SATCOM bands

**Harmonic Suppression** Greater than 45 dBc typical

**Spurious Suppression VHF:** Greater than 80 dBc typical **UHF:** Greater than 50 dBc typical

Receiver

**Sensitivity** -112 dBm @ 12 dB SINAD (FM)

**Image Rejection** Greater than 80 dB **IF Rejection** Greater than 70 dB

Physical Specifications

Height 10.2 inchesDepth 13.4 inches

Width 7.5 inches (single channel)
Width 15.2 inches (dual channel)
Weight 23 lbs (single channel),
varies per configuration

**Environmental** 

Temperature -30°C to 60°C Shock/Vibe MIL-STD-810F Sand & Dust MIL-STD-810F

Interfaces

RS-232
Remote Control
RS-232
VHF Antenna Port
UHF Antenna Port
Audio
Battery Charger
RS-232
SO Ohm BNC
50 Ohm BNC
LS-671 compatible
Six-hour charge time

Radio Interoperability

**Crypto Fill Devices** AN/CYZ-10 DTD (supports

DS-101, DS-102 and Mode 2/3)

KYX-15, KYK-13

Crypto Modes KY-57, ANDVT/KYV-5, KG-84C,

AES, FED-STD-1023, AES

Radios AN/PRC-117F, AN/PRC-113,

AN/PRC-119A/B, AN/PRC-148, AN/PRC-77, PSC-5, AN/PRC-139, XTS-5000, ARC-210, ARC-164,

ARC-231

Key Radio Waveforms

SINCGARS
VHF/UHF AM/FM
HAVEQUICK II
MIL-STD-188-181B

**HPW** 

Key Radio Features

SCA v2.2

Sierra II programmable Type-1

crypto

Built-in speaker/microphone

Full numeric keypad NVG compatible display

MELP

Wireless cloning





Specifications are subject to change without notice.

