



PRC-611/E

Multi-Band Portable Radio Communication System

Benefiting from the state of the art technologies, PRC-611/E a multi-band Software Defined Radio (SDR) is designed and manufactured for establishing radio communication in frequency range of 30~512 MHz. Different communication capabilities, various modulation types, and wide frequency range cause to establish communication with various types of available radios in the frequency range. Due to frequency hopping capability and internal encryption unit with very complicated local ciphering algorithm, PRC-611/E provides a secure and reliable communication for the operator in battlefield. Benefitting from powerful wideband frequency hopping (30~512 MHz) and highly advanced encryption technologies, this radio is highly robust against jammers and deception. There are three selectable power levels (Low, Medium, and High) considered in the radio so that it covers a wide transmission range. In addition, Fixed/Hopping frequency mode, Code/Plain voice and data transmission, SMS sending, Various types of analog/digital modulations, establishing selective/group/broadcast communication, Software upgrading/programming, Hailing/Plain override/Late Entry, connecting to external GPS (optional), network connection (optional), remote controlling (optional) via the RS-485/LAN/ISDN, and operator's controller unit (optional) are the other capabilities of the PRC-611/E.



General specifications

Frequency range......30~512 MHz

Frequency channel spacing......8.33/12.5/25 KHz

Number of preset channels......100

Supply......12-16.4 VDC battery pack

Battery life time: 15h (1-1-8) for rechargeable

battry

Battery life time: 8h (1-1-8) for disposable battery

Antenna type......Wipe/Rod

Modulation type......FM,AM,FSK,CPM,QPSK

Vocoder types......MELP/CVSD/AMBE

Voice/Data operating modes.....FIX FREQUENCY (PLAIN/CIPHER)

FREQUENCY HOPPING (CIPHER)

Data transmission rate.....up to 9.6Kbps

TX specifications

Output power......AM: 5W (PEP)

FM: 500mW, 2W, 5W

Harmonic rejection.....50dBc

Distortion......AM: less than 7%/FM: less than 5%

RX specifications

Sensitivity......AM: -104dBm (10dB SINAD)

FM: -113dBm (10dB SINAD)

Distortion.........AM: less than 7%/FM: less than 5%

Adjacent channel rejection......70dB

Physical & Environmental specifications

Dimension (H×W×D)......285×320×105 mm

Weight.....about 3.5Kg (without battery)

Operating temperature....-25°C ~ +65°C Storage temperature...-40°C ~ +70°C Environmental standard.....MIL-STD-810F

EMC standard......MIL-STD-461