



VRC-611/E

Multi-Band Vehicular Radio Communication System

Benefiting from the state of the art technologies, VRC-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, VRC-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 four selectable power levels (Low, Medium, High, and very 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, GPS, network connection, and remote controlling (via the RS-485/ LAN/ISDN) are the other capabilities of the VRC-611/E.



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Frequency range	30~512 MHz
Frequency channel spacing	
Number of preset channels	
Supply	
Antenna type	
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 nower	AM, 40M/(DED)

Output power	AM: 40W (PEP)
	FM: 500mW, 2W, 5W, 40W

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%
Image rejection	70dB
IF rejection	
Adjacent channel rejection	

Physical & Environmental specifications

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Dimension (H×W×D)	280×320×105 mm
Weight	less than 14Kg
Operating temperature	25°C ~ +65°C
Storage temperature	40°C ~ +70°C
Environmental standard	MIL-STD-810F
EMC standard	MIL-STD-461