

# Specifications

## General

Frequency Range	VHF: 136-174MHz UHF1: 400-470MHz UHF3: 350-400MHz UHF2: 450-520MHz
Channel Capacity	128
Channel Space	12.5 /20/25KHz
Dimensions(H*W*D)	44*483*375mm
Weight	7.6Kg
LCD	1.8 inch TFT LCD 128x160 pixels,262Kcolors
Operating Voltage	DC 13.6V±15% AC 100 - 240VA
Current Drain	<1A(Standby) <6A(Transmit@25W) <10A(Transmit@50W)
Frequency Stability	0.5ppm
Continuous duty Cycle	100%

## Transmitter

Frequency Stability	0.5ppm
RF Max. Power Output	High Power Model: 45/50W Low Power Model: 25W
Digital Modulation	7K60FXD(Data Only) /7K60FXW (Data and Voice)
FM Modulation	16K $\odot$ F3E@25KHz / 14K $\odot$ F3E@20KHz 11K $\odot$ F3E@12.5KHz
4FSK Modulation Accuracy	5%
4FSK BER	0%
4FSK and Magnitude Error	5%/1%
Adjacent Channel Power	70dB@25/20KHz / 60dB@12.5KHz
Conducted and Radiated Emission	-36dBm <1GHz / -30dBm >1GHz
Transmission Deviation limits	5KHz@25KHz / 4KHz@20KHz /2.5KHz@12.5KHz
Audio Distortion	3%
Hum and Noise	48dB@25KHz / 46dB@20KHz 43dB@12.5KHz
Audio Response	+1 ~ -3dB

## Receiver

Digital Sensitivity	-120dBm / BER 5% -116dBm / BER 1%
Digital Dynamic Faded Sensitivity (100KM/H& 8KM/H Rayleigh Fading)	-104dBm
Analog Sensitivity	-120dBm / 12dB SINAD
Intermodulation	75dB (TIA603) / 70dB(ETSI)
Blocking	95dB (TIA603 & ETSI)
Spurious Response Rejection	75dB (TIA603 & ETSI)
Adjacent Channel Selectivity	75dB@25 KHz (TIA603) 70dB@25 KHz (ETSI) 70dB@20KHz (TIA603 & ETSI) 65dB@12.5KHz (TIA603) 60dB@12.5 KHz (ETSI)
Conducted Spurious Emission	-57dBm
Rated Audio Power Output	1W (16 $\Omega$ Load)
Rated Audio Distortion	3%
Hum and Noise	48dB @25KHz / 46dB@ 20KHz 43dB@12.5KHz
Audio Response	+1 ~ -3dB
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361 -1, -2,-3,-4

## Reliability

Operating Temperature	-30 ~ +60 $^{\circ}$ C
Storage Temperature	-40 ~ +85 $^{\circ}$ C
Shock&Vibration	MIL-STD-810 C/D/E/F/G Standard
ESD	IEC 61000-4-2(level 4) $\pm$ 8KV (Contact) , $\pm$ 15KV (Air)
Surge Immunity Test (EN 6100-4-5)	Differential Mode:6KV Common Mode:6KV



# DMR Basestation Repeater PR9000

- ◆ 19 Inches, 1U Cabinet Size Design with Power Supply Inside
- ◆ 100% Continuous Duty Cycle with High Power Output
- ◆ Mixed Mode Multi-site IP Connect to Support Digital and Analog Repeaters
- ◆ DMRA AIS Application Successful Solution
- ◆ Upgrade to DMR Trunking and Simulcast Basestation Transceiver

