

Specifications

General

Frequency Range	VHF1:136-174MHz UHF1:400-470MHz UHF3:350-400MHz
Channel Capacity	32
Channel Space	12.5 KHz/25KHz
Dimensions(H*W*D)	44*483*375mm
Weight	7.6Kg
LCD	1.8 inch 128x160 TFT color LCD
Operating Voltage	DC 13.6V±15% AC 100 - 240VA
Current Drain	<1A(Standby) <10A(Transmit)
Frequency Stability	0.5ppm
Continuous duty Cycle	100%

Transmitter

Frequency Stability	0.5ppm
RF Power Output	High Power Model: 45~50W Low Power Model: 25W
Digital Modulation	7K60FXD(Data Only) 7K60FXW(Data and Voice)
FM Modulation	16K C F3E@25KHz / 11K C F3E@12.5KHz
4FSK Modulation Accuracy	5%
4FSK BER	0%
4FSK and Magnitude Error	5%/1%
Adjacent Channel Power	70dB@25KHz / 60dB@12.5KHz
Conducted and Radiated Emission	-36dBm <1GHz / -30dBm >1GHz
Transmission Deviation limits	5KHz@25KHz / 2.5KHz@12.5KHz
Audio Distortion	3%
Hum and Noise	45dB@25KHz / 40dB@12.5KHz
Audio Response	+1dB ~ -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)
Selectivity	75dB@25 KHz(TIA603&ETSI) /65dB@12.5KHz(TIA603&ETSI)
Conducted Spurious Emission	-57dBm
Rated Audio Power Output	1W
Rated Audio Distortion	3%
Hum and Noise	45dB @25KHz / 40dB@12.5KHz
Audio Response	+1dB ~ -3dB
Digital Vocoder Type	AMBE++ / NVOC
Digital Protocol	ETSI-TS102 361 -1, -2,-3,-4

Reliability

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

APPLICABLE MIL-STD

MIL Standard	810C Methods/ Procedures	810D Methods/ Procedures	810E Methods/ Procedures	810F Methods/ Procedures	810G Methods/ Procedures
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temp. Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain**	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, II, V	516.3/ I, IV, V*2	516.4/ I, IV, V*2	516.5/ I, IV, V*2	516.6/ I, IV, V*2
Immersion**3	—	—	—	512.4/ I	512.5/ I

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DMR Basestat on Repeater ER9000

- ◆ 19Inches 1U Cabinet Size Design with Power Supply Inside
- ◆ 100% Continuous Duty Cycle with 50W High Power Output
- ◆ Built-in Auto tune Duplexer
- ◆ Upgrade to DMR Trunking and Simulcast Basestat on Transceiver



