EXCERA
Innovate to Succeed

DMR
DIGITAL MOBILE RADIO ASSOCIATION



EP5800

DMR PORTABLE RADIO

- Utilise TI OMAP Processor, Not RDA low tier IC
- Fully Compliant with CE and FCC Certification
- Built-in GPS,Bluetooth and Mandown（optional）
- Fast charge, 85% of battery capacity finished within one hour
- DMR Multi-Site IP Connection
- DMRA ARC4/DES/AES Encryption（optional）
- Single Frequency Repeater Support
- DMR T3 & MPT 1327 Support Capability
- Ultra High Cost Effective

EP5800

DIGITAL PORTABLE RADIO

General

Frequency Bands	VHF: 136-174MHz UHF1: 400-470MHz UHF3: 350-400MHz
Channel Capacity	1024
Channel Space	12.5KHz/20KHz/25KHz
Dimensions(H*W*D)	115*54*30 mm
Weight	300g (With standard battery and antenna)
LCD	1.8inch TFT LCD 128*160 pixels 262K colors
Operating Voltage	7.4V
Battery	2000mAh Li-ion 2400mAh Li-ion（optional）
Working Time （2000mAh,5-5-90 mode）	Analog：10.5H(No GPS) Digital：13.5H(No GPS)

Transmitter

Frequency Stability	0.5ppm
RF Power Output	VHF:High 5W Low:1W UHF:High 4W Low:1W
Digital Modulation	7K60FXD (Data Only) 7K60FXW (Data and Voice)
Analog Modulation	16K ∅F3E @ 25KHz 11K ∅F3E @ 12.5KHz
4FSK Modulation Accuracy	5%
4FSK TX BER	0%
4FSK and Magnitude Error	5% / 1%
Adjacent Channel Power	70dB@20/25KHz / 60dB @ 12.5 KHz
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	45dB @ 25KHz /43 dB @ 20KHz 40dB @ 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	70dB (TIA603) 65dB (ETSI)
Blocking	90dB (TIA603 & ETSI)
Spurious Response Rejection	70dB (TIA603 & ETSI)
Adjacent Channel Selectivity	70dB@25 &20KHz(ETSI) 60dB@12.5KHz(ETSI)
Conducted Spurious Emission	-57dBm
Rated Audio Power Output	0.5W
Rated Audio Distortion	3%
Hum and Noise	45dB @25KHz/43dB@20KHz 40dB@12.5KHz
Audio Response	+1 ~ -3dB
Digital Vocoder Type	AMBE++
Digital Protocal	ETSI-TS102 361 -1, -2,-3

Reliability

Operating Temperature	-30 ~ +60℃
Storage Temperature	-40 ~ +85℃
IP Rating/Humidity	IP67 (IEC60529)
Shock&Vibration	Per MIL-STD-810 C/D/E/F/G Standard
ESD	IEC 61000-4-2(level 4) ±8KV(Contact) ±15KV(Air)

GPS&GLONASS

TIFF Cold Start	60s
TIFF Hot Start	10s
Horizontal Positioning Accuracy	10m

Standard Accessories


Battery



Charger


Power Adapter


Antenna


Belt Clip


Hang Rope


User Manual

FC CE RoHS

SHENZHEN EXCERA TECHNOLOGY CO.,LTD.

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