



EXCERA

Innovate to Succeed



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
- ◆ Fast charge, 85% of battery capacity finished within one hour
- ◆ DMR Multi-Site IP Connection
- ◆ DMRA ARC4/DES/AES Encrypton
- ◆ Excera Easy Trunk Support
- ◆ DMR T3 & MPT 1327 Support Capability
- ◆ Ultra High Cost Effective

General

Frequency Bands	VHF:136-174MHz UHF:400-470MHz
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

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 ϕ F3E @ 25KHz 11K ϕ 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	65dB (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 Protocol	ETSI-TS102 361 -1, -2,-3

Reliability

Operating Temperature	-30 ~ +60 °C
Storage Temperature	-40 ~ +85 °C
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