



DP480E

Amateur Portable Radio

- Increased Call Capacity with DMO 2-slot Operation
- GPS Real Time Location
- Secure Communications
- Pseudo Trunk
- Automatic roaming under IP Multi-site Connection System



DP480E

DP480E Amateur Portable Radio

KEY FEATURES AND BENEFITS

• Analog, Digital and Mixed Modes

DP480E is able to detect signal type when receiving a call and automatically switch between analog and digital mode. The user can reply during the call hang time using PTT. This feature improve migration from analog to digital.

• Support

Provide Direct Mode Operation in 2 slots increasing channel capacity without increasing channel frequency spectrum.

• Versious Digital Signaling

DP480E supports features such as Radio Check, Call Alert, Stun/Revive, Radio Kill, and Remote Monitor; which make the radio management easy.

• GPS (Optional)

Integrated GPS enables real-time tracking of radio.

• Digital Encryption

DP480E supports ARC 40-bit encryption, which guarantees communication safety and improve communication privacy. Encryption function provide further protection against over-the-air interception.

• Multiple Emergency Alarm Modes

Emergency alarm/call can be sent to your team member by pressing independent emergency button. It also supports lone worker, mandown.

• Roaming

Support roaming while using the radio in an IP site connect system.

• Programmable Keys for Easy Operation

There are three programmable keys to select most-used features.

• Pseudo Trunk

Dynamically allocation of slot while using repeater mode. Improve channel utilization providing simultaneous communication in repeater mode.

Standard Accessories



Adaptor



Single Unit Charger



Battery



Belt Clip



Antenna



Strap

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.



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Specifications

General

Frequency Range	144-146MHz, 430-440MHz
Channel Capacity	256
Zone Capacity	16
Channel Spacing	25KHz/12.5KHz(Analog), 12.5KHz(Digital)
Operating Voltage	7.4V DC \pm 20%
Battery	2000mAh Li-ion(Standard)
Battery Life	Analog:15 hours@2000mAh (5-5-90 Duty Cycle, High TX Power) Digital:18 hours@2000mAh
Frequency Stability	\pm 1.5 ppm
Antenna Impedance	50 Ω
Dimension(H·W·D)	36.5mm*61.5mm*132mm(DP485) 36mm*61mm*132mm(DP480)
Weight	305g(DP480E)
(with standard battery)	

Receiver

Sensitivity Analog	0.22uV@12dB SINAD
Sensitivity Digital	0.22uV@BER5%
Selectivity	60dB@12.5kHz,70dB@25kHz(TIA-603) 60dB@12.5kHz,70dB@25kHz(ETSI)
Spurious Response Rejection	70dB@12.5kHz/25kHz(TIA-603) 70dB@12.5kHz/25kHz(ETSI)
Inter-modulation	70dB@12.5kHz/25kHz(TIA-603) 65dB@12.5kHz/25kHz(ETSI)
Hum and Noise	40dB@12.5kHz;45dB@25kHz
Rated Audio Power Output	1W
Rated Audio Distortion	3%(typical)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@<1GHz,-47dBm@>1GHz

Transmitter

RF Power Output	5W/1W(VHF) 4W/1W(UHF)
FM Modulation	11K Φ F3E@12.5kHz 16K Φ F3E@25kHz
4FSK Digital Modulation	12.5kHz Data Only:7K6 Φ FXD 12.5kHz Data&Voice:7K6 Φ FXW
Modulation Limiting	\pm 2.5kHz@12.5kHz, \pm 5kHz@25kHz
Radiated Spurious Emission	-36dBm < 1GHz, -30dBm > 1GHz
FM Hum & Noise	40dB@12.5kHz, 45dB@25kHz
Adjacent Channel Power	60dB@12.5kHz, 70dB@25kHz
Audio Response	+1~-3dB
Audio Distortion	\leq 3%
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

Environment Specifications

Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC610000-4-2(Level4) \pm 4kV(Contact) \pm 8kV(air)
Dust & Water Protection	IP54 Standard

GPS

Accuracy specs are for long-term tracking(5 satellites visible at nominal -130dBm)

TTFF(Time To First Fix) Cold Start	<1 minute
Horizontal Accuracy	10m
TTFF(Time To First Fix) Hot Start	10 seconds