



DP480/485

DMR 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



**KIRISUN DMR Solution
Delivers Significant Benefits**



DP480

DP485

DP480/485 DMR Portable Radio

KEY FEATURES AND BENEFITS

• Analog, Digital and Mixed Modes

DP480/DP485 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.

• DMO Support

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

• Supplementary Features

DP480 supports radio enable, radio disable, and remote monitor.

• GPS (Optional)

Integrated GPS enables real-time tracking of radio.

• Digital Encryption

It 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

The emergency feature supports multiple alarm modes such as top priority alarm.

• 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.

SPECIFICATIONS

General

Frequency Range	136-174MHz, 400-470MHz
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	± 1.5 ppm
Antenna Impedance	50 Ω
Dimensions(H-W-D)(with standard battery, without antenna)	36.5mm*61.5mm*132mm(DP485) 36mm*61mm*132mm(DP480) 290g(DP485),305g(DP480)
Weight(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) 70dB@12.5kHz/25kHz(TIA-603) 70dB@12.5kHz/25kHz(ETSI) 40dB@12.5kHz/45dB@25kHz
Spurious Response Rejection	
Hum and Noise	1W
Rated Audio Power Output	3%(typical)
Rated Audio Distortion	+1~-3dB
Audio Response	-57dBm@<1GHz,-47dBm@>1GHz
Conducted Spurious Emission	

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	± 2.5 kHz@12.5kHz, ± 5 kHz@25kHz
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	ABME+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) ± 4 kV(Contact) ± 8 kV(air) IP54 Standard
Dust & Water Protection	

GPS

Accuracy specs for long-term tracking(5 satellites visible at nominal -130dBm)	
TTF(TIME TO FIRST FIX) Cold Start	< 1 minute
Horizontal Accuracy	10m
TTF(TIME TO FIRST FIX) Hot Start	10 seconds

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

STANDARD ACCESSORIES



Adaptor



Single Unit Charger



Battery



Belt Clip



Antenna



Strap



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