ArroTop



ARROWMID GROUP
Critical connectivity solutions



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
- TOT (Time out Timer)







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.

Versious Digital Signaling

DP480/485 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

DP480/485 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.

Versatile Voice Calls

DP480/DP485 support various voice call types, including Private Call, Group Call, All Call and Emergency Call, Selective Call and Priority Call.

Low battery Alarm

Sound bip and LED light flash indication when battery is low.

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	136-174MHz(DP485), 400-470MHz(DP480/485)		
Channel Capacity	256		
Zone Capacity	16		
Channel Spacing	25KHz/12.5KHz(Analog), 12.5KHz(Digital)		
Operating Voltage	7.4V DC ±20%		
Battery	2000mAH Li-ion(Standard)		
Battery Life	Analog: 15 hours@2000mAh		
(5-5-90 Duty Cycle,	Digital: 18 hours@2000mAh		
High TX Power)			
Frequency Stability	± ppm		
Antenna Impedance	50Ω		
Dimension(H·W·D)	36.5mm*61.5mm*132mm(DP485)		
(with battery,	36mm*61mm*132mm(DP480)		
without antenna)			
Weight	290g(DP485), 305g(DP480)		
(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	IW
Rated Audio Distortion	3%(typical)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@<1GHz,-47dBm@>1GHz

Transmitter		
RF Power Output	5W/IW(VHF) 4W/IW(UHF)	
FM Modulation	11K Ф F3E@12.5kHz	
	16K O F3E@25kHz	
4FSK Digital Modulation	12.5kHz Data Only:7K6 © FXD	
879903	12.5kHz Data&Voice:7K6 Φ FXW	
Modulation Limiting	±2.5kHz@12.5kHz, ±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	≤ 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)	
	±4kV(Contact) ±8kV(air)	
Dust & Water Protection	IP67 Standard	
Military Standard	MIL-STD-810 C/D/E/F/G	

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

TTFF(Time To First Fix) Cold Start	<i minute<="" th=""></i>
Horizontal Accuracy	10m
TTFF(Time To First Fix) Hot Start	10 seconds