

AXP505

DMR Portable Radio



MODEL **AXP505**_Q
AxiomDistributionSolutions.com

DMR

Features



Large Capacity Battery, Long Battery Life

With 2500mAh large capacity battery, AXP505 can operate continuously for at least 20 hours in digital mode, meeting the needs of long work shift on the front line.



Security Encryption Protection

AXP505 supports 40/128/256bit basic encryption to improve call security and avoid information leakage. Easy software settings ensure call is foolproof.



Loud and Clear Voice

Carefully optimized audio design, combined with an excellent audio encoder, ensure the loudness and maximize the fidelity of the voice. Even in a noisy environment, it can accurately identify the speaker and hear the content clearly.



Support Dispatching

The AXP505 supports multiple dispatching services such as registration, radio check, lone worker, remote stun/revive, and so on, to realize remote dispatch and meet daily work management needs.



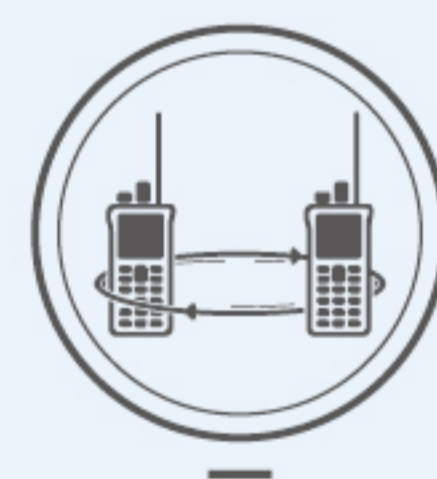
Standard Narrowband Digital Conventional Compatible with Analog

AXP505 supports DMO / repeater dual-slot call function in digital mode. Call capacity is doubled compared with analog. With digital-analog conventional compatibility, AXP505 can quickly switch between digital/analog mode.



Reliable Quality

Compliant with IP67 protection level, suitable for outdoor work in various harsh working environments, such as shock, vibration, and solar radiation.



Classic PTT Layout, Easy to Operate

AXP505 is optimized in accordance with typical PTT scheme, using the super-sized PTT button and the double-knob design at the top, which makes the user's operation handy.



Innovative Baseband/RF Design

The innovative ARM+DSP+ discrete RF design ensures that The platform is flexible and easy to expand. Meanwhile, the RF performance reach a high level, and the sensitivity and blocking meet the requirements of the complicated networking conditions.

Application Scenarios



Accessories



Antenna



Belt Clip



2500mAh Li-ion Battery



Desktop Charger



Power Adapter



Programming Cable



8-way Charger



C-Style Earpiece



Transparent Tube Earpiece

Specification

General		Receiver	
Frequency	UHF1: 400-470MHz	Sensitivity (Analog)	0.18uV(12dB SINAD)
Channel Capacity	32	Sensitivity (Digital)	0.18uV (5% BER)
Zone Capacity	2	Adjacent Channel Selectivity	60 dB@12.5KHz/70 dB@20/25KHz (TIA603A) -1T
Channel Spacing	12.5kHz/20KHz/25KHz		45dB@12.5KHz /70 dB@20/25KHz (TIA603D) -2T
Frequency Stability	±0.5ppm		60dB@12.5KHz /70 dB@20/25KHz (ETSI)
Operating Voltage	7.4V	Intermodulation	70 dB (TIA603D)
Battery Capacity	2500mAh(standard)		65 dB (ETSI)
Battery Life	Analog: 16 Hours Digital: 20 Hours (5:5:90 working cycle, high power transmission)	Spurious Rejection	70 dB (TIA603D)
			70 dB (ETSI)
Size (H x W x D)	116.5x54.5x36.5mm (with 2500mAh battery, without antenna)	Blocking	80dB(TIA603D)
Weight	275g (with 2500mAh battery and antenna)		84dB(ETSI)
Screen	N/A	Co-channel Rejection	-12~0 dB @12.5KHz/-8~0 dB @20/25KHz
Vocoder	AMBE++	Hum and Noise	-40 dB@12.5KHz /-43 dB@20KHz /-45 dB@25KHz
Layout	Top: volume/switch knob x1, channel knob x1 Side: PTT key x1, programmable key x2, SOS key x1	Rated Audio Power	0.5W
		Max Audio Power	2.0W
External Interface	18pin waterproof interface, support audio/programming	Rated Audio Distortion	≤3% (typical value)
Recording	optional	Audio Response	+1~-3dB (TIA603D)
VOX	Support	Conducted Spurious Emission	-57 dBm (TIA603D)
Roaming	Support	Environmental	
Encryption	Support 40/128/256bit basic encryption	Operating Temperature	-30°C ~ +60°C
		Storage Temperature	-40°C ~ +85°C
Transmitter		ESD	IEC 61000-4-2 (level 3) ±6kV (Contact) ±8kV (Air)
RF Power Output (Low)	1 W	Dust and Water Resistance	IP67
RF Power Output (High)	4W	Reliability	MIL-STD-810 G
FM Modulation	12.5KHz: 11K0F3E / 20KHz: 14K0F3E / 25KHz: 16K0F3E		
4FSK Digital Modulation	12.5KHz Data Only: 7K60F1D&7K60FXD		
	12.5KHz Voice Only: 7K60F1E&7K60FXE		
	12.5KHz Voice And Data: 7K60F1W		
Conducted Radiated Emission	-36dBm ≤1GHz ; -30dBm >1GHz		
Modulation Limiting	±2.5KHz @12.5KHz / ±4KHz @20KHz / ±5.0KHz @25KHz		
FM Hum and Noise	-40 dB@12.5KHz /-43dB@20KHz /-45 dB@25KHz		
Adjacent Channel Power	60 dB@12.5KHz /70 dB @20/25KHz		
Audio Distortion	≤3% (typical value)		
Audio Response	+1~-3dB(TIA603D)		

