

SPH6000 Series Digital Trunking Radios





- Full features compliant with European ETSI DMR Tier || & ||| & PDT standards
- Support conventional and trunking modes; support analog and digital modes
- UHF & VHF
- High-performance processor, large volume battery for extra-long standby time
- Standard embedded Micro SD card for voice recording and encryption
- GPS, Bluetooth
- Mandown function for more security
- High sensitivity receiving for enhanced communication distance
- Flexible and practical data services and operations
- Big loudspeaker and noise reduction for high quality voice communication
- Friendly open API for third party development













C ∈ F© RoHS MIL-STD SRRC

Shenzhen Samhoo Sci & Tech Co., Ltd. (Stock code: 834963) is a worldwide professional wireless digital trunking terminals developer and manufacturer. The team with more than ten years' experience in this field has devoted its effort to develop DMR, PDT, and TETRA radio products for public safety, transportation, public utilities, enterprises and other commercial sectors. Samhoo understands the needs of reliable and trustable emergency communication of Mission Critical and Business Critical and endeavors to provide our clients with the most reliable professional wireless communication equipment with continuous innovation spirit.



General	PDT dia:	tal trunking GA / T1056, 1057, 1058, 1059
Communication protocols & standards	PDT digital trunking GA / T1056, 1057, 1058, 1059	
	-	3 digital trunking ETSI-TS102 361-1, -2, -3, -4
Frequency Bands	Analog trunking MPT 1327 / MPT1343	
	136-174MHz; 350-400MHz; 400-470MHz; 450-520MHz	
Channel Spacing	12.5KHz / 20KHz / 25KHz 7.4V	
Operating Voltage		
Battery Volume Working Time	2250mAh (Lithium battery)	
Working Time (5-5-90 duty cycle, high TX power) Dimensions	Analog: > 13h; Digital: > 18h	
(standard battery, not including antenna) Weight	128*55*35.5(H*W*D)	
(standard battery, including antenna)	355 ± 1%g	
Frequency Stability	± 0.5ppm	
LCD Display	160*128pixel, 65535 color, 1.8 inches color screen (SPH6000S non-display	
GPS	Accuracy < 10m, TTFF cold start 1 min / hot start 10 sec Standard Micro SD	
Encryption & Storage	Standard	Micro SD
Transmitter	T	
RF Power Output	VHF High power: 5W; VHF Low power: 1W	
	UHF High power: 4W; UHF Low power: 1W	
FM Modulation	11KOF3E@12.5KHz; 14KOF3E@20KHz; 16KOF3E@20KHz	
4FSK Digital Modulation	12.5khz Data: 7F60FXD	
	12.5khz Data& voice: 7F60FXW	
Conducted / Radiated Emission	<u>'</u>	
Modulation Limiting	±2.5KHz@12.5KHz; ±4.0KHz@20KHz; ±5.0KHz@25KHz	
FM Noise	40dB@12.5KHz; 43dB@20KHz; 45dB@25KHz	
Adjacent Channel Power	60dB@12.5KHz; 70dB@20/25KHz	
Audio Response	+1~-3dB	
Audio Distortion	≤3%	
Digital Voice Vocoder	AMBE+-	r NVOC
Receiver		
Sensitivity	Analog	0.3 μ V(12dB SINAD): 0.22 μ V(Typical value)(12dB SINAD)
		0.4 μ V(20dB SINAD)
	Digital	0.3 μ V / BER5%
Sensitivity TIA-603 / ETSI	60dB@1	2.5KHz / 70dB@20 & 25KHz
Intermodulation	TIA-603	70dB@12.5 / 20 / 25 KHz
	ETSI	65dB@12.5 / 20 / 25 KHz
Spurious Response Rejection TIA	-603 / ETSI	70dB@12.5 / 20 / 25 KHz
Blocking	TIA-603	80dB
	ETSI	84dB
Hum and Noise	40dB@1	2.5KHz; 43dB@20KHz; 45dB@25KHz;
Rated Audio Power Output	1.0W	
Rated Audio Distortion	≤3%	
Audio Response	+1~-3dB	
Conducted Spurious Emission	<-57dB	m
Environmental Specif	ications	
Operation temperature/ Storage	-30°C~+	60°C / -40°C~+85°C
temperature	IEC 61000-4-2 (level 4); ±8KV(contact); ±15KV(air)	
temperature ESD	IEC 6100	00-4-2 (level 4); ±8KV(contact); ±15KV(air)
		00-4-2 (level 4); ±8KV(contact); ±15KV(air)

Accessories:



Battery



Belt clip



Charger



Power adapter



Antena



Strap



Shoulder microphone (Optional)



Leather case



Earphone (Optional)



Bluetooth (Optional)



DMR



Type 1 core member of the DMR association Council member of the PDT association