

# PH6000 Series igital Trunking Radios







## **Product features**

- Full features compliant to ETSI DMR Tier2
- tier3\* and PDT\*
- All working mode: DMO, RMO, TMO\*
- Full duplex call
- Voice + Data services, and multi-level Encryption
- Higher RF sensitivity, better coverage
- Original battery cell, better working time
- Bigger loudspeaker and optimized Sound quality
- Standard TF card
  - **Encryption & Storage & User Config**
- GPS and worldwide position tracking
- Vibration, man-down, Bluetooth\*
- IP67 and MIL-STD-810G
- Multiple accessories
- Friendly open API for 3rd party

Remark: \* optional



### Encryption & Storage

Provide hardware guarantee of Key, Certification and user Configuration, support mass storage.

FC C∈ RoHS CTA MIL

■ SPH6000

Samhoo Sci & Tech Co.,LTD (Samhoo), is a worldwide success Digital PMR radio developer and manufacturer. The experienced team with more than 10 years have devoted most effort to develop DMR, TETRA and PDT radio products for public safety, transportation, public utilities, enterprise & business and commercial sectors. We understand our responsibility to support Mission Critical and Business Critical with robust and reliable professional mobiles. With continuous innovation spirit, we are trying our best to delivery most reliable Digital PMR radio products to our partners and customers.



## www.samhoo-pmr.com

# SPH6000 Series

General		
Communication protocol standards		DMR Digital trunking ETSI-TS102 361-1,-2,-3
		PDT Digital trunking GA/T1056,1057,1058,1059
Frequency Band		136-174MHz;
		350-400MHz;
		400-470MHz;
		450-520MHz
Channel Spacing		12.5KHz/20 KHz /25 KHz
Operating Voltage		7.4V
Battery		2000mAh(Li-lon)
Battery Life(5-5-90 Duty Cycle, High TX Power)		Analog: >13h; Digital: >18h
Dimensions(standard battery, without antenna)		H*W*D: 128*54.5*35(mm)
Weight(standard battery and antenna)		355±1%g
LCD Display		Big colour display(SPH6000s Without LCD Display)
GPS		Standard
Encryption & Storage		Micro SD
Transmitte	Ţ	
RF Power Output		VHF High-power: 5W; VHF Low-power: 1W
Kr rower output		UHF High-power: 4W; UHF Low-power: 1W
FM Modulation  4FSK Digital Modulation		11KΦF3E @12.5KHz;
		14KΦF3E @20KHz;
		16KΦF3E @25KHz;
		12.5KHz Data Only: 7K60FXD
		12.5KHz Data & Voice: 7K60FXW
Conducted/Radiated Emission		-36dBm<1GHz; -30dBm>1GHz
Modulation Limiting  FM Hum & Noise		±2.5KHz @ 12.5KHz;
		±4.0KHz @ 20KHz;
		±5.0KHz @ 25KHz
		40dB @ 12.5KHz;
		43dB @ 20KHz;
		45dB @ 25KHz
Adjacent Channel Power		60dB @ 12.5KHz;
		70dB @ 20/25KHz
Audio Response		+1 ~ -3dB
Audio Distortion		≤3%
Digital Speech Vocoder		AMBE++ or NVOC
Receiver		
	Audiou	0.3 μV (12dB SINAD); 0.22 μV (Typical)( 12dB SINAD);
Sensitivity	Analog	0.4 μV (20dB SINAD)
	Digital	0.3 μV /BER5%
Selectivity	TIA-603/ETSI	60dB @ 12.5KHz/70dB @ 20&25KHz
ermodulation	TIA-603	70dB @ 12.5/20/25KHz
	ETSI	65dB @ 12.5/20/25KHz
purious Response Rejection TIA-603/ETSI		70dB @ 12.5/20/25KHz
Blocking	TIA-603	80dB
	ETSI	84dB
Hum and Noise		40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz
Rated Audio Power Output		1.0W
Rated Audio Distortion		≤3%
Audio Response		+1 ~ -3dB
Conducted Spurious Emission		<-57dBm
Environme	ntal Specification	s
Temperature Operating/Storage		-30°C~+60°C/ -40°C~+85°C
		EC 61000-4-2(level 4)
ESD		

Standard accessories Battery Belt clip Charger Power adapte Antena Strap

#### Optional accessories









SAMHOO SCI & TECH CO.,LTD.

U.S. Military Standard (Temperature & Fall & Vibration)

Remark: All specifications are subject to change without prior notice

**Dust & Water Proof** 

Add: Futian, Shenzhen, Guangdong, China Tel: +86-755-8226 7833 Fax: +86-755-8226 3733 E-mail: sales@samhoo.com.cn

±8kV(contact);±15kV(air)

MIL-STD-810 C/D/E/F/G



ISO9001:2008&ISO14001:2004



FC C€ RoHS CTA MIL

The core member of ETSI DMR and PDT