

SPM6000 Series Digital Trunking Mobile



- Full features compliant with European ETSI DMR Tier II & III & PDT standards
- Support conventional and trunking modes; support analog and digital modes
- UHF & VHF
- Different power output (5 - 25 W, 5 - 45 W), enhanced communication coverage
- Standard embedded Micro SD card for voice recording and encryption
- GPS, Bluetooth
- Numeric and non-numeric hand microphone available
- Integral radio / Split radio designs
- Friendly open API for third party development
- Full range of accessories for easy installation and utilization



Integral radio



Split radio

CE FC 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 Specifications

Communication Protocols & Standards		DMR tier 3 digital trunking ETSI-TS102 361-1, -2, -3, -4 PDT digital trunking GA / T1056, 1057, 1058, 1059 Analog trunking MPT 1327 / MPT1343
Frequency Bands		136-174MHz; 350-400MHz; 400-470MHz; 450-520MHz
Channel Capacity		1024
Zone Capacity		64
Channel Spacing		12.5KHz / 20KHz/25KHz
Operating Voltage		13.6V ± 15%
Current Consumption	Standby Current	< 0.6A
	Receiving Current	< 0.2A
	Transmitting Current	< 5A(5W); < 8A(25W); < 12A(45W / 50W)
Antenna Impedance		50Ω
Dimensions		60*168*175mm(H*W*D)
Weight		1.8kg
Frequency Stability		± 0.5ppm
LCD Display		2.2 inches transfective/ transmissive TET LCD display, resolution: 320*240

Transmitter

Power Output	VHF High power: 50W; VHF Low power: 5W
	UHF High power: 45W; UHF Low power: 5W
FM Modulation	11KOF3E@12.5KHz; 14KOF3E@20KHz; 16KOF3E@25KHz
4FSK Digital Modulation Method	12.5kHz Data: 7F60FXD; 12.5kHz Data & voice: 7F60FXW
Spurious Emission	-36dBm < 1GHz; -30dBm > 1GHz
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%

Receiver

Sensitivity	Analog	0.3μV (12dB SINAD); 0.22μV (Typical value) (12dB SINAD); 0.4 μ V(20dB SINAD)
	Digital	0.3 μ V/ BER5%
Adjacent Channel Selectivity	TIA-603	65dB@12.5KHz / 75dB@20 & 25KHz
	ETSI	60dB@12.5KHz / 70dB@20 & 25KHz
Intermodulation	TIA-603	75dB@12.5 / 20 / 25KHz
	ETSI	70dB@12.5 / 20 / 25KHz
Spurious Response Rejection	TIA-603	75dB@12.5 / 20 / 25KHz
	ETSI	70dB@12.5 / 20 / 25KHz
Blocking	TIA-603	90dB
	ETSI	84dB
Hum and Noise		40dB@12.5KHz; 43dB@20KHz; 45dB@25KHz;
Receiving Rated Audio Power	Built-in(load 20Ω)	3W
	External(load 8Ω)	7.5W
Rated Audio Distortion		≤3%
Audio Response		+1~-3dB
Conducted Spurious Emission		< -57dBm

Environment Index

Operation temperature / Storage temperature		-30°C~+60°C / -40°C~+85°C
ESD		IEC 61000-4-2(level 4)
		± 8KV(contact); ± 15KV(air)
Environment Test Standard		MIL-STD-810 C / D / E / F / G
Water & dust proof	Integral type	IP54
	Split type	Control head IP67, main unit IP54
Humidity		According to MIL-STD-810 C / D / E / F / G standard
Shock & vibration		According to MIL-STD-810 C / D / E / F / G standard

GPS

The accuracy standard is applicable for long time tracking. (95% value > under rated -130dBm signal strength, there are 5 visible satellites)

TTF cold start	< 1 min
TTF hot start	< 10 sec
Horizontal location accuracy	< 10 m

Remark: The above specifications comply with standard tests accordingly, and due to continuous technical development, they are subject to changes without prior notice.

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Accessories:



Power supply cable



Non-numeric hand microphone



SPM6000 F fix station (optional)



Beidou/GPS antenna (optional)



Power supply (optional)



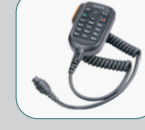
Bracket (optional)



Programming cable (optional)



Programming connecting line (optional)



Numeric hand microphone (optional)



Bluetooth (optional)



ISO9001:2008 & ISO14001:2004



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

