



Smart Pro - Digital

License Free Digital Transceiver



Smart Pro Digital brings advanced Digital voice & Dual-timeslot technologies to ensure superior call quality & ideal reliability. The communication capacity of our Smart Pro Digital radio is twice as that of analog radios, therefore making it the best choice for Business customers who need analog-to-digital solutions.



Digital / Analogue Mode Switchable



Dual Timeslot in DMO Mode



Ultra High Capacity Battery



Digital Voice Encryption



Reliable & Durable
(Meets MIL-STD-810 & Driving Rain Test)



Superior Audio Quality

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Technical parameters

General specification

Frequency	446 - 446.2 MHz
Channel Zone	16
Channel Capacity	4000 (250 Channels / Zone)
Antenna impedance	50Ω
Dimension(H*W*D)	100x54x35mm
Weight (W/battery)	230g
Li-ion battery	3400mAh
Rated Voltage	DC: 7.4V
Battery: The average battery life under 5/5/90 duty cycle, and using carrier squelch and TX power Note: The battery working life may have little difference. Battery capacity maybe change without notice, but the list is standard specification.	

Transmitter

Channel Spacing	12.5kHz/25kHz
Frequency stability (-30℃, +60℃, +25℃)	+/-0.5ppm
Power	0.5 W
Modulation restriction	±2.5dB@12.5kHz / ±5.0dB@25kHz
FM hum & noise	-40dB@12.5kHz / -45dB@25kHz
Conducted/radiated emission	-36dBm < 1GHz / -30dBm > 1GHz
Adjacent channel selectivity	-60dB@12.5kHz / -65dB@25kHz
Audio Response	+1、-3dB
Audio Distortion	3%
FM modulation	12.5kHz :11KOF3E 25kHz :16KOF3E 12.5kHz data: 7K60F1D and 7K60FXD
4FSK digital modulation	12.5kHz audio: 7K60F1E and 7K60FXE 12.5kHz data and audio: 7K60F1W
Digital vocoder	AMBE+2™
Digital agreement	ETSI-TS102 361-1、-2、-3

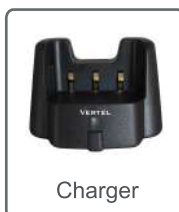
Receiver

Channel Spacing	12.5kHz/25kHz
Frequency stability (-20℃, +60℃, +25℃)	+/- .5ppm
Analogue sensitivity	0.3μV / 0.25μV
Digital sensitivity(5% BER)	0.25μV / 0.2μV
Intermodulation	65dB
Adjacent channel selectivity	60dB@12.5kHz / 65dB@25kHz
Spurious rejection	65dB
Rated audio	500mw
Audio distortion @rated audio	3%
FM hum & noise	-40dB@12.5kHz / -45dB@25kHz
Audio response	+1、-3dB
Conducted / radiated emission	-57dBm

Main Features:

- Private Call
- Group Call
- All Call
- Scan
- Kill
- Revive
- Battery Save Mode
- One-touch Call
- Remote Monitor
- Call Alert
- Records for 90 hours
- Prompt Tone On/Off
- Low Power Voice/Icon Prompt
- Support Voice Prompt for Channel Switching or Function-Option
- Two Programmable Buttons for long pressing are available on the side.

Accessories:



Optional: