

Rx765

KEY FEATURES

The Rx765 meets MIL-STD-810G standards and has an IP68 rating, making it waterproof up to 2 meters for 4 hours and resistant to 2-meter drops onto concrete. It's built to withstand the toughest environments.

TECHNICAL DATA

General

Frequency Range	UHF: 350~470MHz; VHF: 136~174MHz
Channel Capacity	1024
Zone Capacity	64
Zone Channel	256
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.7V (rated)
Battery	2400 mAh Li-polymer
Battery Life (5/5/90 Duty Cycle, High TX Power)	24h (GNSS disabled); 20h (GNSS enabled)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	132 x 55 x 29.5mm
Weight (with antenna & battery)	310g
Display	LCD, 320×240 pixel, 262000 colors, 2.4 inch, 10 rows
BT	BT 5.0 BLE+EDR

Receiver

Sensitivity	Analog: 0.18μV (12dB SINAD); 0.16μV (Typical) (12dB SINAD); Digital: 0.18μV/BER5%
Adjacent Channel Selectivity	TIA-603: 60dB@12.5kHz / 70dB@20/25kHz; ETSI: 60dB@12.5kHz / 70dB@20/25kHz
Intermodulation	TIA-603: 70dB@12.5/20/25kHz; ETSI: 65dB@12.5/20/25kHz
Spurious Response Rejection	TIA-603: 70dB@12.5/20/25kHz; ETSI: 70dB@12.5/20/25kHz

Receiver (continued)

Blocking	TIA-603: 80dB ETSI: 84dB
Hum and Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤3%
Audio Response	+1 ~ -3dB
Conducted Spurious Emission	<-57dBm

Transmitter

RF Power Output	UHF: 1W/4W VHF: 1W/5W
FM Modulation	11K0F3E@12.5kHz; 14K0F3E@20kHz; 16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD; 12.5kHz Data and Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm<1GHz; -30dBm>1GHz
Modulation Limiting	±2.5kHz@12.5kHz; ±4.0kHz@20kHz; ±5.0kHz@25kHz
FM Hum & 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 Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

Environmental

Operating Temperature	-30°C* ~ +60°C (*Radio only - Battery -20°C)
Storage Temperature	-40°C ~ +85°C
ESD	IEC 61000-4-2 (Level 4); ±8kV (contact); ±15kV (air)
Dust and Water Protection	IEC60529- IP68
Humidity	MIL-STD-810 G
Shock and Vibration	MIL-STD-810 G

Location Services

GNSS	GPS, GLONASS, BDS
TTFF (Time To First Fix) Cold Start	<1 min (Typical)
TTFF (Time To First Fix) Hot Start	<10 sec (Typical)
Horizontal Accuracy	<5m (probable at -130dBm)

Features

Operation Modes	Conventional (Digital / Analog), and Digital Trunking
Voice Services	Private, Group, Emergency, Broadcast, PSTN - Calls
Data Services	Private Text, Status, Group Messages, Quick Text
Connectivity	Bluetooth, GPS, GLONASS, Accessory Support
Security	Emergency alerts, Man Down, Lone Worker, Authentication, Encryption (Basic/Full)
Other	Roaming, Remote Monitor, Call Alerts, 2-Tone Analog Support
Analog Mode	2-Tone signaling, 5-Tone Signaling, HDC 1200

ACCESSORIES

- Standard: Charger CH10L27
- Standard: Adapter (12V/1A)
- Standard: Battery BP2403
- Standard: Antenna
- Standard: Belt Clip BC39
- Standard: Strap RO03
- Optional: Wireless Earphone
- Optional: Programming Cable (USB Port)
- Optional: Wireless Finger PTT