

ADVANCED DIGITAL PORTABLE RADIO

Rx665

Empower Your Operation with Rx665 Series

Compact, lightweight, and powerful – the Rx665 Series delivers crystal-clear audio, extended coverage, long battery life, and exceptional durability. Designed for customer-facing teams, it ensures efficient communication, improved productivity, and uninterrupted service.

KEY FEATURES

Light & Stylish

Slim and lightweight design for easy portability with clear audio for professional-grade communication.

Long Battery Life

Over 20 hours of usage with advanced lithium polymer battery – no need to recharge during shifts.

Rugged & Durable

MIL-STD-810G certified and IP67 rated – resists drops up to 2 meters and tough environmental conditions.

Clear Audio

Powerful speaker, AI noise cancellation, and water-porting technology ensure clear sound even in noisy or wet environments. AI-based noise cancellation reduces background noise and howling by up to 30dB, ensuring clear audio for the receiver regardless of the caller's noisy environment.

Easy to Use

The Rx665 Series is compact, discreet, and user-friendly with tactile PTT, programmable buttons, and BT5.0 wireless connectivity - ideal for hands-free operation.

Extended Range

Enhanced receiver sensitivity ensures reliable performance in weak signal areas, improving safety and communication for field teams.

Realix Industries Private Limited
TA-01, 3rd Floor, Lake City Mall, Kapurbawadi Junction, G B Road, Thane West 400607, Maharashtra, India
+91 22 4203 9999 · info@realix.in · realix.in

TECHNICAL DATA

General	
Frequency Range	UHF: 400-527MHz VHF: 136-174MHz
Channel Capacity	1024
Zone Capacity	64
Zone Channels	256
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.7V (rated)
Battery	2000 mAh Li-polymer
Battery Life (5/5/90)	20h (GNSS OFF); 16h (GNSS ON)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	122 x 55 x 31.5mm
Weight (with antenna & battery)	280g
Display	160 x128pixels, 65536colors, 1.8inch, 6rows
BT	BT 5.0 BLE+EDR

Receiver	
Sensitivity	Analog: 0.18μV (12dB SINAD); 0.16μV (Typical) (12dB SINAD); Digital: 0.18μV/BER5%
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
Blocking	TIA-603: 80dB ETSI: 84dB

Receiver (continued)	
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

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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)
Dustproof & Waterproof	IEC60529-IP67
Humidity	Per MIL-STD-810G Standard
Shock and Vibration	Per MIL-STD-810G Standard

Location Services	
GNSS	GPS, GPS+GLONASS, GPS+BDS
TTFF (Time To First Fix) Cold Start	<1minute
TTFF (Time To First Fix) Hot Start	<10seconds
Horizontal Accuracy	<5meters

Features	
Operating Modes	Analog conventional; Digital conventional; XPT
Voice Service	Private Call; Group Call; All Call; Emergency Call; Priority Interrupt
Data Service	Text Message; Quick Text Message
Connection	BT Audio; BT Data; GNSS (GPS, GLONASS, BDS); Open API
Safety	Emergency; Man Down; Lone Worker; Authentication; Air Interface Encryption; End-to-End Encryption; Disable/Enable

Features (continued)	
Analog Mode	2-Tone signaling; 5-Tone Signalling*; HDC1200
Supplementary	Profiles; Programmable Buttons; Interface Switcher; Roaming; Remote Monitor; Radio Check; Alert Call

ACCESSORIES

- Standard: Charger
- Standard: Adapter (12V/1A)
- Standard: Li-polymer battery 2000mAh
- Standard: Antenna
- Standard: Belt clip
- Standard: Strap
- Optional: BT Wireless earpiece
- Optional: Programming cable (USB port)
- Optional: BT wireless ring PTT
- Optional: BT Wireless remote speaker microphone
- Optional: Wired earpiece
- Optional: Multi-unit charger

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