ADVANCED DIGITAL MOBILE / STATIC RADIO

Rx775

Empower Your Operation



The Realix Rx775 is a flexible digital mobile radio designed for smooth communication across vehicles, motorcycles, and control rooms. It offers multiple control head options, smart connectivity, a modern UI, and AI noise cancellation for clear audio in noisy environments.

KEY FEATURES

Flexible Installation

Realix Rx775 supports various setups with control head options—standard, single, or dual remote - using cables up to 40m (customizable up to 120m). Ideal for small vehicles, ambulances, trucks, buses, and desktop offices.

AI-Based Noise Cancellation

Realix Rx775 uses advanced AI technology to deliver clear audio by removing road noise, echoes, and nearby exhalation or howling sounds.

Clearer

Reduces noise up to 30dB

Faster

Filters voices in milliseconds

Flexible

10-level adjustable AI noise control for different noise conditions

TECHNICAL DATA

General	
Frequency Range	UHF: 350-470MHz, VHF: 136-174MHz
Channel Capacity	1024

General (continued)	
Zone Capacity	64 (each with a maximum of 256 channels)
Channel Spacing	12.5kHz/20kHz/25kHz

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

General (continued)	
Operating Voltage	13.6 V ±15%
Current Drain - Standby	< 0.5A
Current Drain - Receive	< 2.0A
Current Drain - Transmit 1W	<3A
Current Drain - Transmit 5W	<4A
Current Drain - Transmit 25W	<8A
Current Drain - Transmit 45W/50W	<12A
Frequency Stability	±0.5 ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	61.5 x 177 x 179 mm
Weight	1520g
LCD Display	2.4 inch

Receiver	
Sensitivity - Analog	0.18μV (12dB SINAD); 0.16μV (Typical) (12dB SINAD)
Sensitivity - 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: 70dB@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
Hum and Noise	40dB@12.5kHz, 43dB@20kHz, 45dB@25kHz

Receiver (continued)	
Rated Audio Power Output	Internal (20 Ohm load): 3W; External (8 Ohm load): 7.5W
Max Audio Power Output	Internal (20 Ohm load): 8W; External (8 Ohm load): 20W
Rated Audio Distortion	≤3%
Audio Response	+1 ~ -3dB
Conducted Spurious Emission	<-57dBm

Transmitter	
RF Power Output	Low power: UHF: 1–25W, VHF: 1–25W; High power: UHF: 1–45W, VHF: 1–50W
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
Storage Temperature	-40°C ~ +85°C

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Environmental (continued)	
ESD	IEC 61000-4-2 (Level 4); ±8kV (Contact); ±15kV (Air)
American Military Standard	MIL-STD-810 G
Dustproof & Waterproof	IP54
Humidity	Per MIL-STD-810 G Standard
Shock & Vibration	Per MIL-STD-810 G Standard

Location Service	
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

Installation forms	
Standard control head	Small vehicles, motorcycles
Remote control head (Single or dual), connection cable (3m, 10m, or 40m)	Ambulance, fire engine, truck, large bus
Fixed station	Desktop office

Features	
Operating Modes	Supports digital, analog, conventional, and trunking communication.
Voice Services	Offers private, group, and all-call options.
Text Messaging	Enables private messages, group messages, and quick texts.
Solutions	Includes IP transit, back-to-back, wireless link, and clarity transmission.

Features (continued)	
Security	Equipped with emergency alarm, lone worker mode, authentication, encryption (basic, full, hardware), and over-the-air security.
GPIO Pins	Supports public address, horn/lights, voice notify, and ignition sense.
Supplementary Features	Includes alert call, remote monitor, enable/disable, and radio check.
Analog Mode	Supports 2-tone signaling and HDC1200.

ACCESSORIES

- Standard: Conventional model: palm microphone without keypad
- Standard: Trunking model: palm microphone with keypad
- Standard: Mounting bracket
- Standard: Power cord
- Standard: Fuse
- Standard: Model with GPS: GPS antenna
- Optional: External Speaker
- Optional: Desktop Microphone
- Optional: External Power Supply
- Optional: Programming Cable (USB Port)
- Optional: Data Cable
- Optional: Foot Switch (external PTT)
- Optional: Wireless Earpiece
- Optional: Ignition Cable
- Optional: Antenna
- Optional: GPS Antenna
- Optional: DIN vehicle mounting bracket
- Optional: Dispatch cable
- Optional: Mobile Radio Remote Mount Kit
- Optional: Cabinet Power Supply
- Optional: Wireless remote speaker microphone
- Optional: Wireless PTT

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