



ADVANCED DIGITAL MOBILE / STATIC RADIO

Realix Rx775

ENHANCE YOUR OPERATION



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.

HIGHLIGHTS

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 desk-top 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.

Key Benefits:

Clearer: Reduces noise up to 30dB

Faster: Filters voices in milliseconds

Flexible: 10-level adjustable AI noise control for different noise conditions

Form	 Standard control head	 Remote control head (Single or dual) Connection cable (3m, 10m, or 40m)	 Fixed station
Application	Small vehicles, motorcycles	Ambulance, fire engine, truck, large bus	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.

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.



SPECIFICATIONS

General			
Frequency Range	UHF: 350-470MHz, VHF: 136-174MHz		
Channel Capacity	1024		
Zone Capacity	64(each with a maximum of 256 channels)		
Channel Spacing	12.5kHz/20kHz/25kHz		
Operating Voltage	13.6 V \pm 15%		
Current Drain	Standby	< 0.5A	
	Receive	< 2.0A	
	Transmit	1W	<3A
		5W	<4A
		25W	<8A
		45W/50W	<12A
Frequency Stability	\pm 0.5 ppm		
Antenna Impedance	50 Ω		
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)	
	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	
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, VHF1:5-25W High power: UHF:1-45W, VHF1:5-50W
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	\pm 2.5kHz @ 12.5kHz; \pm 4.0kHz @ 20kHz; \pm 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	\leq 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
ESD	IEC 61000-4-2 (Level 4) \pm 8kV (Contact) \pm 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

















*Accuracy specs are for long-term tracking (95th percentile values)>5 satellites visible at a nominal -130dBm signal strength)

ACCESSORIES

Standard

- Conventional model: palm microphone without keypad
- Mounting bracket
- Power cord
- Fuse
- Trunking model: palm microphone with keypad
- Model with GPS: GPS antenna

Optional

							
External Speaker	Desktop Microphone	External Power Supply	Programming Cable (USB Port)	Data Cable	Foot Switch (external PTT)	Wireless Earpiece	Ignition Cable
							
Antenna	GPS Antenna	DIN vehicle mounting bracket	Dispatch cable	Mobile Radio Remote Mount Kit	Cabinet Power Supply	Wireless remote speaker microphone	Wireless PTT

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