

# PR900

## DMR Repeater

- Slim and Compact with 1U Design
- Easy Operation and Configuration with Screen and Buttons
- Digital-Analog Auto Detection
- High Security and Reliability with Rich Services
- Multiple Networking Solutions for Various Scenarios



# Specifications


General	
Digital Protocol	ETSI TS 102 361-1, -2, -3
Frequency	UHF1: 400-470MHz VHF: 136-174MHz
Channel Capacity	1024
Channel Spacing	12.5kHz/25KHz
Max Duty Cycle	100%
Operating Voltage	AC100-240V @50/60Hz DC13.6V±15%
Backup Power Supply	Support
Size (W*H*D)	436×44.5×366.4mm (Standard 19-inch 1U height frame)
Weight	8.5Kg
Screen	2.0-inch HD LCD, 320×240, 10 status LEDs

Transmitter	
Frequency Stability	±0.5ppm (Max)
Power Output	1W - 50W (UHF1/VHF)
FM Modulation	12.5KHz :11K0F3E /25KHz:16K0F3E
4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD
	12.5KHz Voice and Data: 7K60FXE
Conducted/ Radiated Emission	-36dBm ≤1GHz ; -30dBm >1GHz
Modulation Limiting	±2.5KHz @12.5KHz /±5.0KHz @25KHz
Adjacent Channel Power	60dB@12.5KHz / 70dB@25KHz
FM Noise	40dB (Min)
Audio Distortion @ Rated Audio	≤3% (Max)
Audio Response	+1 ~ -3dB(TIA603D)

Receiver	
Sensitivity (Analog)	0.14uV (12dB SINAD)
Sensitivity (Digital)	0.14uV (5% BER)
Frequency Stability	±0.5ppm (Max)
Adjacent Channel Selectivity	65dB@12.5 kHz/75dB@25 kHz (TIA-603D)
	65dB@12.5 kHz/75dB@25 kHz (ETSI)
Intermodulation	75dB (TIA603D)
	70dB (ETSI)
Spurious Rejection	80dB (TIA603D)
	80dB (ETSI)
Blocking or Desensitization	98dB (TIA603D)
	95dB (ETSI)
FM Noise	40dB (Min)
Audio Distortion @ Rated Audio	≤3% (Max)
Audio Response	+1 ~ -3dB (TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

Environmental	
Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C

## ACCESSORIES

Standard	
	
Power Cable	

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