

# PR900

## DMR Repeater

- 1U Design
- Smart Digital-Analog Auto Detection
- Control Panel with Screen and Button
- IP Connection
- Dispatcher Connectivity
- Accessory Expansion Facility
- High Security and Reliability



# Technical 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 - 240 V @ 50 / 60 Hz DC13.6 V $\pm$ 15%
Backup Battery	Support
Size ( W $\times$ H $\times$ D )	436mm $\times$ 44.5mm $\times$ 366.4mm
Weight	8.5 Kg
Frequency Stability	$\pm$ 0.5 ppm
Screen	2.0" TFT LCD, 320 $\times$ 240
Receiver	
Analog Sensitivity	0.22 $\mu$ V ( 12 dB SINAD )
Digital Sensitivity	0.22 $\mu$ V ( 5% BER )
Intermodulation	75 dB ( TIA603D )
	70 dB ( ETSI )
Adjacent Channel Selectivity	65dB@12.5 KHz/70dB@25 KHz (TIA-603D)
	65dB@12.5 KHz/70dB@25 KHz (ETSI)
Spurious Response Rejection	80 dB ( TIA603D )
	80 dB ( ETSI )
Blocking or Desensitization	90 dB ( TIA603D )
	90 dB ( ETSI )
FM Hum and Noise	-40 dB@12.5KHz / -45 dB@25KHz
Audio Distortion	$\leq$ 3% ( Typical )
Audio Response	+ 1dB $\sim$ - 3 dB
Conducted Spurious Emission	- 57 dBm
Transmitter	
Low Power Output	1W
High Power Output	50W
FM Modulation	12.5KHz:11K0F3E , 25KHz:16K0F3E
4FSK Digital Modulation	12.5KHz Data: 7K60FXD
	12.5KHz Voice & Data: 07K60FXE
Conducted/Radiated Emission	-36dBm@ $\leq$ 1GHz , -30dBm@>1GHz
Modulation Limiting	$\pm$ 2.5KHz @12.5KHz / $\pm$ 5.0KHz @25KHz
Adjacent Channel Power	-60dB@12.5KHz , -70dB@25KHz
FM Hum and Noise	-40dB@12.5KHz , - 45dB@25KHz
Environmental	
Operating Temperature	-30 $^{\circ}$ C $\sim$ + 60 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C $\sim$ + 85 $^{\circ}$ C