

PR900

DMR Repeater

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- 1U Design
 - Smart Digital-Analog Auto Detection
 - Control Panel with Screen and Button
 - IP Connection
 - Dispatcher Connectivity
 - Accessory Expansion Facility
 - High Security and Reliability
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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 μ V (12 dB SINAD)
Digital Sensitivity	0.22 μ 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