

Why Digital?

New DMO Repeater Solution

Direct Mode Repeater (TX=RX) : RPT-810

RPT-810 allocates one timeslot to receive a signal and the other to transmit it at the same frequency.

FEATURES

- 2.8" HD TFT LCD Display
- Also can be DMR Tier II base station
- Further API Support
- IP54 and MIL-STD-810 Standards Compliance
- High/Low Power Switchable
- Supports two voice calls simultaneously in direct mode

Direct Mode Repeater:



Technical Specifications

Standard Accessories



Palm Microphone

General	
Frequency	VHF:136-174 MHz or UHF:400-470MHz
Channel Capacity	1024
Channel Space	12.5KHz/25KHz
Dimensions(H*W*D)	60*174*190mm
Weight	1500g
LCD	2.8" HD TFT LCD 240×320 pixels, 262K colors
Operating Voltage	DC13.6V±15%
Current Drain	<12A (45W)
	<8A (25W)
	<5A (5W)
Reliability	
Operating Temperature	-30 - +60℃
Storage Temperature	-40 - +85℃
IP rating/humidity	IP54(The Control Panel IP67 Design)
Shock& Vibration	Per MIL-STD-810 C/D/E/F/G standard
ESD	IEC 61000-4-2(level 4) ±8KV (Contact) ±15KV (Air)
Receiver	
Digital Sensitivity	-120dBm/BER 5% / -116dBm/BER 1%
Digital Dynamic Faded Sensitivity	-104dBm
(100KM/H& 8KM/H Rayleigh Fading)	
Analog Sensitivity	-120dBm/12dB SINAD
Intermodulation	75dB (TIA603) /70dB(ETSI)
Blocking	95dB (TIA603 & ETSI)
Spurious Response Rejection	75dB (TIA603 & ETSI)
Selectivity	75dB@25 KHz(TIA603&ETSI) /65dB@12.5KHz(TIA603&ETSI)
Conducted Spurious Emission	-57dBm
Rated Audio Power Output	4W(Internal@20ohm load) / 7.5W(External@8ohm load)
Max Audio Power Output	8W(Internal@20ohm load) / 20W(External@8ohm load)
Rated Audio Distortion	3%
Hum and Noise	45dB @25KHz /40dB@12.5KHz
Audio Response	+1dB - -3dB
Digital Vocoder Type	AMBE++/NVOC
Digital Protocol	ETSI-TS102 361-1, -2,-3,-4
Transmitter	
Frequency Stability	0.5ppm
RF Power Output	High Power Model:45-50W Low Power Model:25W
Digital Modulation	7K60FXD(Data Only) /7K60FXW (Data and Voice)
FM Modulation	16K ± F3E@25KHz /11K ± F3E@12.5KHz
4FSK Modulation Accuracy	5%
4FSK BER	0%
4FSK and Magnitude Error	5%/1%
Adjacent Channel Power	70dB@25KHz /60dB@12.5KHz
Conducted and Radiated Emission	-36dBm <1GHz /-30dBm >1GHz
Transmission Deviation limits	5KHz@25KHz /2.5KHz@12.5KHz
Audio Distortion	3%
Hum & Noise	45dB@25KHz /40dB@12.5KHz
Audio Response	+1dB~-3dB
GPS&GLONASS	
TIFF Cold Start	60s
TIFF Hot Start	10s
Horizontal Accuracy	10meters

