

Talkpod

DR30

## DMR Digital Repeater



The DR30 is an Open-standard DMR repeater, maximize the performance of your digital radio system. Available in UHF and VHF frequency bands, the DR30 utilizes dynamic mixed mode capability to ease migration by automatically switch between analog and digital mode. DR30 supports two simultaneous voice or data paths in digital mode, doubling capacity without additional equipment.



Talkpod Technology Co., Ltd.

# Features

- Voice Announcement
- Basic and Enhanced Privacy
- Intelligent Audio
- Predefined Text
- Acoustic Feedback Suppressor
- Transmit Interrupt
- Microphone Distortion Control
- Emergency Search Tone
- Trill Enhancement
- Electronic Serial Number
- SINC+ Noise Cancellation
- Digital Emergency
- Wide Range of Accessories
- Busy Channel Lockout
- Programmable Buttons
- Analog and Digital
- Remote Monitor
- Voice Record
- VOX Ready
- Battery status indicate
- Multiple Scan
- Text Messaging
- Battery Saver
- Password protection

## Special Function

- **TDMA Digital Audio Capability**

Time-division multiple-access (TDMA) provides twice the calling capacity for the price of one license.

- **Dual Mode: Analog & Digital**

Dual Mode Analog and Digital channel auto switching, allowing efficient frequency sharing between Analog and Digital users and ensures a smooth transition to Digital technology.

- **25/50W High Power**

Maximum repeating power of 50W, and thus increasing the system coverage with lesser setup equipments.

- **Dynamic Mixed Mode**

Allows for automatic switching between analog and digital mode for mixed radio fleets.

- **Transmit Interrupt**

Enables intervention during conversations to deliver critical communication exactly when and where needed.

- **Reliable Performance**

Runs 100% continuous full-duty cycle at 40 W.

- **Easy Installation**

Wall or rack-mountable with sturdy handle.



# Product Specification

Environmental Index					
MIL-STD	810C	810D	810E	810F	810G
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temperature Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I, II
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, II, V	516.3/ I, IV	516.4/ I, IV	516.5/ I, IV	516.6/ I, IV

Transmitter	
RF Power Output	25/50W
4FSK digital modulation	12.5/25kHz data only: 7K60FXD 12.5kHz data & voice: 7K60FXW
Digital protocol	ETSI-TS102 361-1, 2&3
Conducted / Radiated Emission	-36dBm <1GHz -30dBm >1GHz
Modulation limit	±2.5KHz @ 12.5KHz ±5.0KHz @ 25KHz
FM modulation(Analog emissions designator)	11K fF3E @ 12.5kHz 16K fF3E @ 25kHz
Adjacent channel power	60dB @ 12.5KHz 70dB @ 25KHz
Frequency stability	±0.5ppm
FM hum & Noise	12.5kHz @ 11K0F3E
Audio Response	+1~-3dB
Audio Distortion	<3%
Digital Vocoder Type	AMBE ++ or SELP
Digital Protocol	ETSI-TS102 361-1,2&3

The above specifications are tested according to applicable standards. Due to the continuous development of technology, the above index data is subject to change without notice.


General Specifications	
Model number	DR30
High Power Output	50W
Low Power Output	25W
Frequency Range	400-470MHz/136-174MHz (Chose 10 MHz Range, eg: 410-420MHz)
Band	UHF/VHF
Channel spacing	12.5/12.5 KHz
Channel capacity	16
Operating Voltage	13.6V 15%
Frequency Stability	±0.5ppm
Current Drain	Standby < 0.8A
	Transmit < 11A
Duty Cycle	100%
Dimensions(HxWxD)	124x483x32(mm)
Weight	Whole Packing About 16KG
Frequency Stability	50Ω
CE FCC & IC ID	FCC 2ADQZTPD5X

Receiving Part	
Sensitivity (digital)	0.35μV/-117dBm (SINAD)
Sensitivity (analog)	0.35μV/-116dBm (SINAD)
Adjacent channel selectivity 1T	60dB (12.5KH channel)
	70dB (25KHz channel)
Adjacent channel selectivity 2T	60dB (12.5KH channel)
	70dB (25KHz channel)
Inter modulation	70dB
Spurious rejection	70dB

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| Talkpod is committed to developing products that help protect the environment.

V1.0 023