

# QDR-10



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# QDR-10

DIGITAL/ANALOGUE  
Repeater unit



## FEATURES

- Super slim 1U modular design
- PSTN telephone interconnection
- IP site connect
- Support ADC8000 dispatcher center
- 99 channel capacity
- Dual fan cooling automatic control
- High power 50watt continuous

## APPLICATIONS

- Mining
- Construction
- Government
- Warehousing
- Manufacturing
- State Emergency
- Theme Parks
- Golf Courses
- Hotels
- Shopping Centres
- Highrise Buildings

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## GENERAL SPECIFICATIONS

Frequency	UHF:400-470MHz 450-520MHz 350-400MHz
Channel Capacity	99CH
Chanel Spacing	Analog: 12.5/25KHz Digital: 12.5KHz
Operation Voltage	100~264VAC~50/60Hz ; DC13.8V±15%
Current Consumption (DC)	≤12A (50W transmit)
Current Consumption (AC)	≤1.2A (50W transmit)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Working Cycle	100%
Size (L*W*H)	403(L)*430(W)*45(H) mm
Weight	7.5kg
Network	IP network

## RECEIVER

<b>Sensitivity</b>	Analog: 0.225uV (12dB SINAD): 0.18uV (typical value) (12dB SINAD) Digital: 0.22V/BER 5%
<b>Adjacent Channel Selectivity</b>	65dB@12.5kHz/75dB @25kHz(TIA-603)
<b>Intermediation Disturbance Rejection</b>	60dB@12.5kHz/70dB @25kHz (ETSI)
<b>Spurious Disturbance Rejection</b>	75dB @12.5/25kHz(TIA-603) 70dB @12.52/25kHz(ETSI)
<b>Blocking</b>	80dB
<b>AC sound and noise</b>	92dB
<b>Nominal Harmonic Distortion</b>	40dB @12.5kHz; 45dB @25kHz
<b>Audio Response</b>	<3%
<b>Conductive Spuriousness</b>	+1~-3dB ≤1GHz : ≤-57dBm; >1GHz : ≤-47dBm

## TRANSMITTER

RF	5~50W
FM Modulation	11K0F3E @12.5kHz ; 16K0F3E @25kHz
4FSK Digital Modulation	data: 7K60FXD, data and voice: 7K60FXW
Conduction/Radiation Spuriousness	working:- 36dBm≤1GHz, -30dBm > 1GHz Standby:- 57dB≤1GHz, -47dBm > 1GHz
Modulation Limitation	± 2.5kHz @12.5kHz; 5kHz @25kHz
FM and Noise	40dB @ 12.5kHz; 45dB @25kHz
Adjacent Channel Power	60dB @12.5kHz; 70dB @25kHz

## ENVIRONMENTAL SPECIFICATIONS

Working temperature	-30°C ~ +60°C
Storage temperature	-40°C ~ +80°C

TTFF (first location) Cold Boot

TTFF (first location) Hot Boot

- All specifications are subject to change without notice due to continuous development
- Complies with Australia / New Zealand RF standards



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# QDR-10 FEATURES



The QDR-10 repeater adopts a modular design, integrating high-performance RF module, main control board, high-efficiency, switching power supply, configured with external DC power supply interface, small size (1U), rugged and compact structure, strong environmental adaptability, suitable for indoor and outdoor installation.

## HIGHLIGHTS AND BENEFITS

- 19-inch 1U structure design, easy for users to install multi-channels integration.
- 99 channels capacity, designed with status indicator LED's and channel display.
- Support fast analog signaling retransmission, support CTCSS/DCS sub-tone retransmission.
- Antenna high SWR protection, prevents poor communication due to antenna installation.
- Maximum power 50W, 5W ~50W selective setting power adjustable, improve the coverage are and probability of reliable communication.
- Full modular design, optimized RF performance, easy to check, replace and maintenance.
- Dual fan cooling with automatic control.
- PSTN telephone connection.
- Support key password protection.
- Support front USB programming port convenient for programming operation.

# QDR-10M

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## INCLUDED IN THE BOX

