

# RETCVIS

# RT92

The DMR Digital Repeater

## Feature :

- Tier-2 DMR Standard of ETSITS102-361.
- TIA/EIA-603C and MIL-STD-810Standard.
- Maximal power 25W/50W.
- Modular design and optimized RF performance.
- Many technology patents applied.
- support CDCSS grouping at same frequency.
- Base station mode and dispatcher mode available.
- Communication between radio sand cable telephone (PABX/PSTN).
- Unaffected sensitivity even under transmitting mode with full power.



## Extended Functions:

- Auto-configuration, Self-diagnostic, Remote monitor and Network management.
- Communication between radio sand cable telephone and mobile phones.
- Via Ethernet network, connect with GPRS/ CDMA/ 3G/ 4G/ LTE/ WIFI wirelessly (Extend to support the wireless IP network), support IP soft switch and multiple sites networking.

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The DMR Digital Repeater

## General Specifications :

Model:	RT92
Frequency:	400-470MHZ
Channel spacing:	25 kHz/12.5 kHz
Operating Voltage:	100~264VAC~50/60Hz
Antenna port transmitting spurs 9KHz~1GHz:	$\leq -36\text{dBm}$ (Launch mode) $\leq -57\text{dBm}$ (Idle mode)
1GHz~12.75GHz:	$\leq -30\text{dBm}$ (Launch mode) $\leq -47\text{dBm}$ (Idle mode)
Chassis port radiation spurs 9KHz~1GHz:	$\leq -36\text{dBm}$ (Launch mode) $\leq -57\text{dBm}$ (Idle mode)
1GHz~12.75GHz:	$\leq -30\text{dBm}$ (Launch mode) $\leq -47\text{dBm}$ (Idle mode)
Antenna impedance:	50 $\Omega$
Speaker impedance:	40 $\Omega$
Operating temperature:	-10 C~+55 C
Volume (length × width × height):	482mm×440mm×89mm
weight:	$\leq 12\text{KG}$

## Reception Specifications:

Digital sensitivity (BER5%):	$\leq -117\text{dBm}$
Adjacent channel selectivity:	$\geq 65\text{dB}$
Intermodulation immunity:	$\geq 70\text{dB}$
Intermodulation immunity:	$\geq 90\text{dB}$
Audio output power:	3.0W

## Transmission specifications

Frequency error:	$\leq 2.5\text{ ppm}$
Transmit power:	50W
Adjacent channel power	$\pm 12.5\text{kHz} : \leq -60\text{ dB}$ , $\pm 25\text{kHz} : \leq -70\text{ dB}$
Transient switching adjacent channel power	$\pm 12.5\text{kHz} : \leq -50\text{ dB}$ , $\pm 25\text{kHz} : \leq -60\text{ dB}$
Modulation:	4FSK
4FSK digital modulation:	data 7K60FXD、Data plus voice 7K60FXW
Digital speech encoder:	AMBE++ or SELP
Transmitted bit error rate:	$\leq 1.5\%$

## Safety Specifications

Insulation resistance:	$\geq 100\text{M}\Omega$ ( Test voltage DC500V ) , Insulation resistance in hot flashes $\geq 2\text{M}\Omega$
Dielectric strength:	AC withstand voltage 1000V ( Leakage current $\leq 5\text{mA}$ ) , 1min , No breakdown, arcing and corona

## Package includes :

- 1 x RT92 DMR Digital Repeater
- 1 x power cable
- 1 x User manual
- 1 x Programming cable
- 3 x Fuse
- 2 x Fixed piece



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