



IRD62S Mobile Radio Repeater

IRD62S mobile radio repeater as center of a cell in the single-sight/multi-sight radio network under the DMR Tier II standard with capability of high reliability and analogue/digital facilities is proper to establish an advance full digital communication. This repeater can be operated in both analogue and digital modes whereas, it is compatible with available analogue networks. Based on type of the received signal, IRD62S switches between analog and digital modes automatically. Many requirements of the operators are met due to high output power of the repeater (50W). Installing this repeater inside the 19" racks easily, establishing secure communication due to software encryption process, powerful cooling fan, establishing radio network and communication with the other repeaters based on the IP network are other advantages of the IRD62S. On the whole, in civil radio networks, rack-mount digital repeater is considered to establish reliable and high quality communication for covering more operators and exchanging vital and online information.



General specifications

Frequency range......UHF: 350~400 MHz/400~470 MHz/450~520 MHz

VHF: 136~174 MHz

Number of channels......16 channels

Channel spacing......12.5KHz/20KHz/25KHz

Operational voltage......13.6V ± 15%

Current consumption.....receiving: <0.8A, transmitting: <11.0A

Frequency stability...... ± 0.5 ppm Antenna impedance..... 50Ω

Receiver specifications

Analogue sensitivity......0.3µV (12dB SINAD)

0.22µV typically (12dB SINAD)

0.4µV (20dB SINAD)

Transmitter specifications

RF output power......UHF: 5~45W (adjustable)/VHF: 5~50W

(adjustable)

Analogue modulation type.....FM

Audio distortion....≤3%

Audio response.....+1 ~ -3dB

Voice compression.....SELP

Digital protocol.....ETSI-TS102 361-1,-2,-3

Physical and environmental specifications

Weight......8.5Kg

Dimension (H×W×D)......88×483×366 mm

LCD dimension......2 inch, 4 rows

Operating temperature.....-30°C ~ +60°C

Storage temperature.....-40°C ~ +85°C

Standards......MIL-STD-810 C/D/E/F/G