



IRD62/E Mobile Radio Repeater



DESCRIPTION

IRD62/E mobile radio repeater as center of a cell in the single-sight/multi-sight radio network under the DMR Tier standard with capability of high reliability and analogue/digital facilities is proper to establish an advanced full digital communication. This repeater can be operated in both analogue and digital modes, since it is compatible with available analogue networks. IRD62/E automatically switches between analogue and digital modes, based on the type of the received signal. 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 IRD62/E. On the whole, in civil radio networks, vehicular/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	±0.5ppm
Antenna impedance	50Ω
Receiver specifications	
Analogue sensitivity	0.3μV (12dB SINAD) 0.22μV typically (12dB SINAD) 0.4μV (20dB SINAD)
Digital sensitivity	0.3μV / BER5%
Transmitter specifications	
RF output power	UHF: 5~45W (adjustable) VHF: 5~50W (adjustable)
Analogue modulation type	FM
Digital modulation type	4FSK
Audio distortion	≤ 3%
Audio response	+1 ~ -3dB
Voice compression	SELP
Digital protocol	ETSI-TS102 361-1,-2,-3
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/G/G and IP67