

# KU688 PORTABLE REPEATER BASE

- EXTENDED RANGE OF COMMUNICATION



## EXAMPLE OF USE

- Construction site
- Rescue operation
- Emergency Area
- Sport event
- Off shore build/construction
- Fire rescue

## HIGHLIGHTS

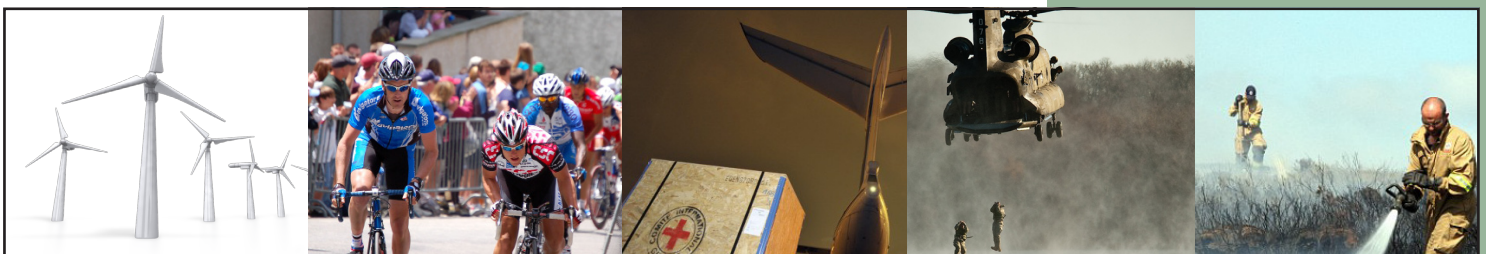
- Full RF bandwidth  
VHF 68-88 / 135-174 MHz  
UHF 350-410 / 400-470 MHz
- Channel spacing  
12.5 / 20 / 25 KHz
- Small size: 34 x 30 x 15 Cm
- Backup Battery 10Ah/12,6V
- Easy to setup / Plug & Play
- CTCSS Signalling  
Carrier controlled repeater
- Weatherproof Casing
- Full duplex repeater
- Temp. Range -20 °C to +55 °C
- Private network
- Easy and reliable communication

## Instant extended range in a suitcase

Where communication and longer coverage is required, this special portable tactical repeater built in a water, crush and dust proof Peli case is always ready for instant setup.

The TP Radio portable repeater is designed for two way radio communication at the VHF or UHF frequency bands. It is a unique product as the design combines an outstanding mechanical robustness with state of the art technology and user friendliness. The unit is a Plug & Play unit.

When communicating between two hand portables, you normally have coverage of a few km. If there is a instant need to cover a bigger area it will be ideal to use this portable repeater. With this repeater your distance can become 10 times longer. If you have a network of radios (even radios from other manufactures), and you need to cover a bigger area, you only have to connect this repeater to a power supply and mount an antenna at a high level. Immediately hereafter you will gain much higher coverage.



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# PROFESSIONAL RADIO COMMUNICATION

Conforms according to the directives:

RoHS 2011/65/EU, MED 2014/90/EU & RED 2014/53/EU - IP67 weatherproof Cabinet

Applied standards:

EN 300 086 - EN 300 720 (Analog part) - EN 300 113 - EN 300 219 - EN 3001 489

## Specifications:

General	UHF I	UHF II	VHF 2m	VHF 4m	Receiver
Frequency Range	350-410 MHz	400-470 MHz	135-174 MHz	68-88 MHz	1. Intermediate freq. 45 MHz
Number of channels	32				2. Intermediate freq. 450 KHz
Channel spacing	12.5, 20 or 25 KHz				Sensitivity @ 20 dB (25 KHz ch. spac.) 0.8 µV typ.
Frequency error	± 2 ppm				AF output power 4 W
Mode of operation	Duplex				AF distortion < 10 %
Antenna impedance	50 Ohm				AF freq. Response 300 - 3000 Hz - 6 dB/Octave
Temperature range	-20° to + 55°C				Signal / noise ratio > 45 dB
Power input	10-55 VDC				Co-channel rejection - 3 dB
Dimensions	34 x 30 x 15 Cm				Adjacent channel selec. > 73 dB
Weight	Approx. 5,9 Kg				Spurious rejection > 75 dB
Input	4 x Digital input				Intermodulation sel. > 70 dB
Backup Battery	Li-Ion 10 Ah / 12,6V				Blocking > 100 dB
<b>Transmitter</b>					Spurious conducted > - 60 dBm
Output power	Adjustable high / low in two steps 5 - 25 W				Spurious radiated > -70 dBm
Adj. Channel power	78 dB below carrier				Squelch level Programmable
Intermod. attenuation	40dB				<b>Signalling</b>
Spurious conducted	less than - 40dBm				CTCSS / DCS
Spurious radiated	less than - 45dBm				Encoder & Decoder. 5 Tone, CCIR or ZVEI
Max. Deviation	+/- 5 KHz / 25 KHz channel				
Modulation distortion	< 5 % @ +/- 3.0 KHz				
Signal / noise ratio	45 dB				
AF freq. Response	300 - 3000 Hz + 6 dB octave				
Current drain	@TX 25 W = < 6.5 A				
Stand-by	<200 mA				



Dealer:

 **TPRADIO**

 **COMSYSTEMS®**  
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