

## RKP-4 & RKP-4B

### 4-Channel Wireless UHF Keypanels

There is nothing like the RKP-4 wireless intercom system anywhere in the world. The RKP-4 wireless keypanel intercom system is a four (4) button 1-to-1, one (1) base station to one (1) beltpack, full-duplex, digitally encrypted wireless intercom and provides communication directly to RTS Digital Matrix Intercom communication systems. The RKP-4 offers a list of standard features unparalleled in the industry, such as frequency agility, digital audio encryption, advanced ClearScan, battery telemetry to the base station, base station RF meter and much more. The RKP-4B, like its sister product the BTR-1, is packed full of the latest technology including Intelligent Power Control, DSP Digital Audio Processing and proprietary digital audio encryption.

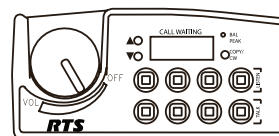
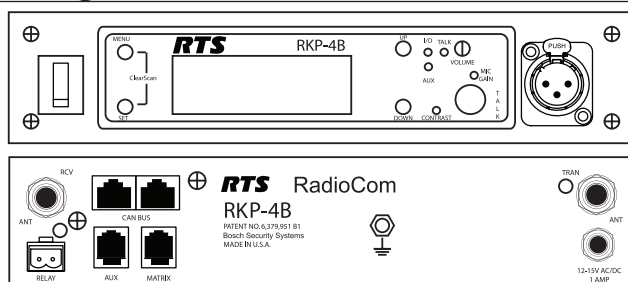
The RKP-4 system provides a menu driven, fully programmable 4-key user station in a wireless beltpack (RKP-4) and base station (RKP-4B) combination. The alphanumeric call waiting window is used for scrollable access to all ports and to verify key assignments and is configured with AZedit software. Keys can be assigned to any intercom function including talk, listen, talk/listen, relay, PL, ISO, IFB and SL. The RKP-4 system interfaces directly with ADAM-M, ADAM, ADAM CS, CS-9500, CS-9600, CS-9700, and Zeus Intercom Systems.



## Features

- Frequency agile base station and beltpacks.
- No external computer/device required to select frequencies or set parameters.
- RadioCom Communications proprietary digitally encrypted wireless communication between the base station and beltpack.
- AC or DC operation in the 12 to 15 Volt range.
- Backlit base station LCD allows the user to easily monitor the beltpack's status.
- The frequencies of a beltpack may be changed at the beltpack or from the base station.
- Beltpack units contained in a weather and shock resistant die cast magnesium case.
- Beltpack battery gauge on RKP-4B display.
- Beltpack has a battery percentage display.
- 4-wire, balanced audio input and output.
- Compatible with ADAM-M, ADAM, ADAM CS, Cronus, and Zeus Digital Matrix Intercom Systems.
- Relay contact closure on the base station can be activated from the beltpack.
- ClearScan function automatically find the best channels on which to operate.
- Base stations are table or rack mountable.
- Alphanumeric call waiting display.
- Auxiliary balanced audio input and output.
- Full-function intercom keys with LED indicators.

## Line Drawings



# Specifications

## Overall

RF Frequency Range: ..... 482–608MHz, 614–698MHz in  
18MHz TX and RX bands

RKP-4 Power Requirements: ..... 6 “AA” Cells Alkaline  
(NiMH optional)

RKP-4B Power Requirements: ..... 12-15 Volts AC/DC  
@ 1 Amp

Beltpack Current Draw: ..... 190mA (Typical)

Temperature Range: ..... -4°F to 130°F (-20°C to 55°C)

TX Antenna: ..... RKP-4: ¼ Wave (supplied),  
Screw type, Replaceable  
RKP-4B: ½ Wave (supplied),  
TNC Male Connector

RX Antenna: ..... RKP-4: ¼ Wave (supplied),  
Screw type, Replaceable  
RKP-4B: ½ Wave (supplied),  
TNC Male Connector

FCC ID: ..... RKP-4 (B5DM523)  
RKP-4B (B5DM519)

Frequency Response: ..... 100Hz–4.0kHz

Microphone input sensitivity: ..... 7mV (200Ω Source)

Local Headset Output: ..... 200mW output into 150Ω  
(1% Distortion)

Auxiliary Input: ..... Level Adjustable (2Vrms typical)

Auxiliary Output: ..... Level Adjustable  
(2Vrms typical into 600Ω)

## Transmitter

Type: ..... Synthesized, 720 channels

Transmit Power: ..... 50mW typical (High),  
5mW typical (Low),  
or auto-power switching

Modulation Type: ..... GMSK

Deviation: ..... Complies with FCC 74.861

RF Frequency Stability: ..... 0.005%

Radiated Harmonics & Spurious: ..... Meets or exceeds  
FCC specifications

## Receiver

Type: ..... Dual Conversion Superheterodyne,  
720 channels

RF Sensitivity: ..... <0.8V for 12dB SINAD

IF Selectivity: ..... 3dB at 230kHz

Image Rejection: ..... 70dB or better

RF Frequency Stability: ..... 0.005%

Distortion: ..... <1% at peak level

S/N Ratio out to Matrix port: ..... 80dB (30kHz Low Pass  
Filtered)

## Product Dimensions/Weight

RKP-4: ..... 3.75” W x 5.35” H x 2.02” D  
(9.5cm x 13.5cm x 5.1cm),  
21oz (595g) with alkaline batteries

RKP-4B: ..... 8.25” W x 1.72” H x 9” D  
(20.9cm x 4.4cm x 22.9cm),  
3lb 1oz (1.39kg)

## Shipping Dimensions/Weight

RKP-4: ..... 7” W x 4” H x 14” D  
(17.78cm x 10.16cm x 35.56cm),  
1lb 9oz (0.71kg) without batteries

RKP-4B: ..... 12” W x 4” H x 16” D  
(30.38cm x 10.16cm x 40.64cm),  
6lb 3oz (2.8kg)

## CONSUMER ALERT

Most users do not need a license to operate this wireless microphone system. Nevertheless, operating this microphone system without a license is subject to certain restrictions: the system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliWatts); and it has no protection from interference received from any other device. Purchasers should also be aware that the FCC is currently evaluating use of wireless microphone systems, and these rules are subject to change.

For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at [www.fcc.gov/cgb/wireless\\_microphones](http://www.fcc.gov/cgb/wireless_microphones).

# Order Information

RKP-4 • Frequency-Agile Beltpack  
RKP-4B • Frequency-Agile Base Station

For ordering information, contact your regional sales representative at:  
<http://rtsintercoms.com/us/intercom/contact>

The specification information is preliminary and is subject to change without notification.  
Brand names mentioned are the property of their respective companies.