



## 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 four-button wireless keypad intercom system is a one-to-one (one base station to one beltpack) full-duplex, digitally encrypted wireless intercom and will provide communication directly to RTS Digital Matrix Intercom communication systems. The RKP-4 offers a list of standard features that are 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, PLs, ISOs, IFBs, etc. and to check and make key assignments and is configured with AZedit software. Keys may 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, ADAM-CS, CS-9500, CS-9600, CS-9700, Zeus and Zeus II.

### Features

Frequency agile base station and beltpacks.

No external computer/device required to select frequencies or set parameters.

Telex RadioCom Communications proprietary digitally encrypted wireless communication between the base station and belt pack. 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.

4-wire, balanced audio input and output.

Compatible with Adam, Adam CS, Cronus, and Zeus Digital Matrix Intercom Systems.

Relay contact closure on the base station that can be activated from the beltpack.

ClearScan function to automatically find the best channels on which to operate.

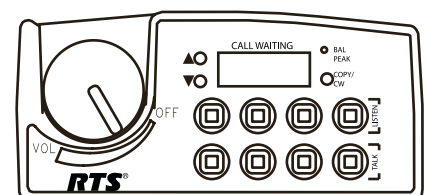
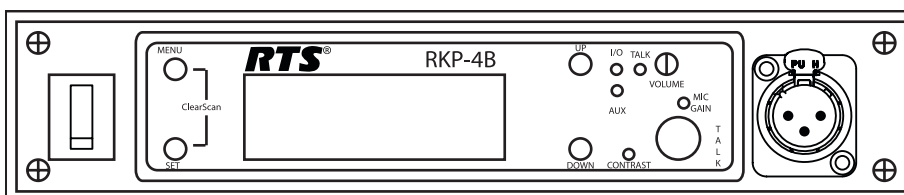
Base stations are table or rack mountable.

Alphanumeric call waiting display.

Auxiliary balanced audio input and output.

Full-function intercom keys with LED indicators.

### Line Drawing



# RKP-4 & RKP-4B Specifications

## Overall

### **RF Frequency Range**

482 - 608 MHz, 614-746 MHz in 18 MHz 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

### **Current Draw**

190 mA (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**

100 Hz-4.0 kHz

### **Microphone input sensitivity**

7 mV (200 Ohm Source)

### **Local Headset Output**

200 mW output into 150 Ohm (1% Distortion)

### **Auxiliary Input**

Level Adjustable (2 Vrms typical)

### **Auxiliary Output**

Level Adjustable (2 Vrms typical into 600 Ohms)

## Transmitter

### **Type**

Synthesized, 720 channels

### **Transmit Power**

50 mW typical (High), 5 mW 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 12 dB SINAD

### **IF Selectivity**

3 dB at 230 kHz

### **Image Rejection**

70 dB or better

### **RF Frequency Stability**

0.005%

### **Distortion**

<1% at peak level

### **S/N Ratio out to Matrix port**

80 dB (30 kHz 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),  
21 oz (545 g) with alkaline batteries

### **RKP-4B**

8.25"W x 1.72"H x 9"D (20.9cm x 4.4cm x 22.9cm),  
3 lbs 8 oz (1.59 kg)

## Shipping Dimensions/Weight

### **RKP-4**

7"W x 4"H x 14"D (17.78cm x 10.16cm x 35.56cm),  
1 lb 6 oz (.62 kg)

### **RKP-4B**

12"W x 4"H x 16"D (30.38cm x 10.16cm x 40.64cm),  
6 lbs (2.72 kg)

#### 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/wirelessmicrophones](http://www.fcc.gov/cgb/wirelessmicrophones).

## Ordering Information

### **RKP-4**

Frequency-Agile Beltpack  
Catalog Number: 301825XX

### **RKP-4B**

Frequency-Agile Base Station  
Catalog Number: 301826XX

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

## Contact Information

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