

Technical Data Sheet

Innovating the Future of Global Communications

BTR-80N

Narrow Band 2-Channel UHF Synthesized Wireless Intercom System



The RTS RadioCom BTR-80N Narrow Band 2-Channel UHF Synthesized Wireless Intercom System is a revolutionary product offered in today's ever-changing and shrinking RF environment. Providing an unprecedented 25kHz of modulated bandwidth, the BTR-80N narrow band system allows more users per channel in the cramped UHF spectrum.

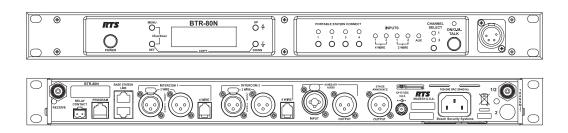
While providing excellent audio performance, the Narrow Band system provides all of the standard features of the RTS RadioCom BTR-800 system, such as DSP digital processing and Intelligent Power Control. Additional features include multiple selectable transmitter power outputs, selectable receiver squelch control, RF meter display on base station and beltpack displays, remote battery indicators on base station display, beltpack battery percentage display, low battery tone indicator on beltpack, AC or DC power input on base station, simultaneous 2-Wire and 4-Wire operation and the ability to expand a system to an unlimited number of users in half-duplex with the First-On-Latch-Out feature. The BTR-80N fits in a standard 19-inch equipment rack and is 1 (1) rack unit high. The TR-80N and TR-82N beltpacks are constructed of durable and lightweight magnesium and provide up to 10-12 Hours of operation on AA alkaline batteries.

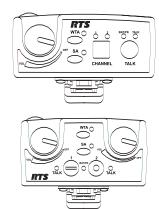
Features

- · UHF Operation.
- · Frequency agile base station and beltpacks.
- · Flexible number of beltpack users per base station.
- · 2-Channel intercom.
- Selectable output power.
- · User adjustable receiver squelch control.
- RF meter on BTR-80N, TR-80N, and TR-82N.
- · Beltpack battery guage on BTR-80N display.
- · Simultaneous 2-wire and 4-wire operation.
- Beltpack low battery indicator with tone warning.

- Beltpack has a battery guage on BTR-80N display.
- Ability to turn off remote beltpack transmitters from base station.
- BTR-80N is easily adapted for two (2) transmitter output.
- BTR-80N is designed for AC or DC power input.
- Auxiliary audio input is assignable with level control.
- BTR-80N has selectable DC power feed on RX Line.
- Beltpack dark mode (no LEDs on).

Line Drawings





Specifications

RF Frequency Range
(USA):
(TV 16 to TV 36 and TV 38 to TV 52) RF Frequency Range
(Outside USA):
BTR-80N Power Requirements:(AC and DC)
100–240VAC,50-60Hz
12–15 Volts DC
TR-80N/TR-82N Power Requirements:6 AA Cells
Alkaline (NiMH optional)
Temperature Range: -4°F to 130°F (-20°C to 55°C)
Frequency Response:
(2Vrms typical)
AudioCom.RTS 2-Wire Intercom
Input and Output:Level Adjustable (1Vrms typical)
Line Impedance 300Ω
RTS 2-Wire Intercom Input and Output:Level Adjustable
(0.775Vrms typical)
Line Impedance 200Ω
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Clear-Com TW Intercom
Clear-Com TW Intercom Input and Output:Level Adjustable (1Vrms typical)
Clear-Com TW Intercom Input and Output:Level Adjustable (1Vrms typical) Line Impedance 200Ω
Clear-Com TW Intercom Input and Output:Level Adjustable (1Vrms typical) Line Impedance 200Ω Auxiliary Audio Input:Adjustable
Clear-Com TW Intercom Input and Output:Level Adjustable (1Vrms typical) Line Impedance 200Ω Auxiliary Audio Input:Adjustable (2Vrms typical)
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Receiver Type:	Triple Conversion Superheterodyne Four (4) Independent IF's 720 Channels Each	
RF Sensitivity:	<0.6 micro volts for 12dB SINAD	
Squelch Threshold:	Adjustable	
	90dB	
Distortion:	1% at full deviation	
Product Dimensions/Weight		
	19.0" W x 1.72" H x 13.8" D	
	(48.3cm x 4.4cm x 35.1cm)	
	7lb 5oz (3.3kg)	
TR-80N:	3.75" W x 5.25" H x 1.65" D	
	(9.5cm x 13.3cm x 4.2cm)	
	1lb 3oz (540g) with batteries	
TR-82N:	3.75" W x 5.25" H x 2.02" D	
	(9.5cm x 13.3cm x 5.1cm)	
	1lb 5oz (597g) with batteries	
Shipping Dimensions/Weight		
BTR-80N:	22.5" W x 5" H x 16.5" D	
	(57.2cm x 12.7cm x 41.9cm)	
	1lb 3 oz (5 1kg)	

Shipping Dimensions/Weight		
BTR-80N:	22.5" W x 5" H x 16.5" D	
	(57.2cm x 12.7cm x 41.9cm)	
	1lb 3 oz. (5.1kg)	
TR-80N:	13.75" W x 3.75" H x 6.5" D	
	(34.9cm x 9.5cm x 16.5cm)	
	1lb 7oz (.65kg) without batteries	
TR-82N:	13.75" W x 3.75" H x 6.5" D	
	(34.9cm x 9.5cm x 16.5cm)	
	1lb 9oz (.72kg) without batteries	

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.

NOTICE:

This wireless microphone system can be configured for both FCC Part 15 (unlicensed) and FCC Part 14 (licensed) operation. When shipped from the factory, this wireless microphone system is configured for unlicensed operation, and will operate at a power level not to exceed 50 milliWatts, which meets FCC Part 15 requirements. If unlicensed users operate this device in excess of 50 milliWatts, harmful interference may result and the unlicensed user will be subject to substantial monetary forfeitures and other FCC sanctions. The wireless microphone system may be operated by holders of a valid FCC license in the Low Power Auxiliary Radio Service under Part 74 of FCC Rules, at power levels between 50 milliWatts and 250 milliWatts.

Order Information

BTR-80N • Narrow Band UHF Base Station TR-80N • Narrow Band UHF 2 Channel Beltpack

TR-82N • Narrow Band UHF 2 Channel Stereo Beltpack

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.

Bosch Security Systems, Inc. | 12000 Portland Avenue South | Burnsville, Minnesota 55337 Telephone: 877·863·4169 | Fax: (800) 323-0498

Form Number: F01U247439 Rev 04

Date: February 2013

