

PATRIOT® BASE STATION

SignalGuys.com

NEW

Wireless 2-way Communications Where You Need It... When You Need It

Use it as a Base Station, Intercom,
or Mobile Radio

- VHF/UHF Conventional models
- UHF Trunking (LTR or PassPort protocols) version
- 2 Watt Output Conventional models
- 3 Watt Output UHF Trunking models
- Compact size, measures 1.4" X 3.8" X 5.6"
- PC Programmable, 2 Channels/Systems or Groups
- 110 VAC or 12 VDC
- Rugged metal enclosure
- Clear and loud, 1 Watt Audio Output
- Built-in CTCSS and Digital Coded Squelch (PBS-454 only) codes
- Narrow (12.5 kHz) or wide (25 kHz) versions available
- Weather Scan (VHF only) for up-to-the-minute information
- Audio accessories available
- Optional Public Address (PA) modification
- One-year warranty
- Made in the USA

Communications Tailored to Your Needs

Portable radios are ideal when you need to be "wireless" and carry communications with you, but there are times when not being "portable" is exactly what you do need. Leave a portable radio on a desk or in a vehicle and it may likely be borrowed. The Patriot Base Station Series (PBS) is a compact Base Station/Mobile Radio specifically designed to stay in one place. It does not invite borrowing and with its rugged metal enclosure the PBS can be mounted permanently so you can be assured that it will be there when you need it.

The PBS is perfect for conventional simplex radio systems, in-plant, campus or community repeater systems, and UHF LTR Trunked radio systems. These radios are specifically designed for business applications where a small, self-contained fixed or mobile radio is required. Since the PBS radio operates on 110 VAC (or with optional 12 VDC adapter), it is always ready. There is no dead battery or overcharging to ever worry about.

Overall, the PBS provides you with a cost-effective all-in-one base station solution versus the traditional and more costly mobile radio.



NEW PBS Series UHF LTR Trunking Version

In addition to conventional models, Ritron offers the PBS in a 3 Watt/2 channel UHF Trunking (LTR or PassPort protocols) version. The radio includes ESN (Electronic Serial Number) and unique radio ID code. Additional features include, built-in Quiet Call (CTCSS) and Digital Quiet Call (DCS) codes. Plus, system operators can easily verify airtime usage since all operational data such as RX, TX, standby, and accumulated run times are stored in the radio. Updates, enhancements, as well as custom applications are easily accomplished by use of FLASH programmable microcontrollers.

• USE THE PBS AS A WIRELESS INTERCOM

Use it in an office, at a loading dock, or in a construction trailer as an intercom/base station or on work carts, forklifts, or other jobsite vehicles as a standard mobile radio.

• USE THE PBS AS A WIRELESS PA SYSTEM

The optional factory installed Public Address (PA) modification* for the PBS Series of Base Station/Mobile Radios provides a wireless link between your radios and your existing Public Address system.

Simply connect the RCA phono plug on the PBS radio to the auxiliary input of a PA amplifier. When connected, the base station/mobile radio will automatically route all authorized radio signals directly to the PA amplifier and out through the PA speakers. Now all authorized radios can initiate PA announcements, pages, customer service requests, and voice alert messages from anywhere within the range of the PBS base station radio. Security codes prevent unauthorized access to the PA system by other two-way radios.

This enhanced wireless Public Address capability is ideal for uses in manufacturing facilities, warehouses, crowd control, special events, schools, hospitals, amusement parks, or retail stores.

* Must be specified at time of order

Ritron Innovation Continues... Since 1977 Ritron continues to lead the wireless communication industry with innovative products and systems specifically designed for business applications. All products are designed, manufactured, and serviced in our modern state-of-the-art facility located in Carmel, Indiana.

Call 800-USA-1-1-1
COMMUNICATIONS



ACCESSORIES/DESCRIPTION

- AFB-1545** VHF/UHF flexible antenna with 90° Pivot.
- CCL-M** 12 VDC adapter plugs into any standard vehicle cigarette lighter permitting the radio to be used in a vehicle.
- JBSK-12** 12 VDC installation kit, includes cable, fuse, and mounting bracket.
- JBS-MMK** Optional wall or mobile mounting bracket allows permanent mounting.
- RAM-1545** Magnetic mount antenna includes BNC connector and wire whip.
- REP-2** Earphone features a 6-foot cord with a shock absorber plug that reduces accidental pullout and offers private reception in high or noisy environments.
- RHD-1X Headset** Single ear headset with boom mic and in-line PTT.
- RHD-4X Headset** Dual ear headset with boom mic and in-line PTT.
- RHD-5X Headset** Ear loop headset with boom mic and in-line PTT
- RHD-6X Headset** Lightweight behind-the-head headset with boom mic and in-line PTT.
- RM-7** Hand microphone with coiled cord and hang-up clip. Permits remote keying.
- RPS-1A** 110 VAC power supply.
- RSM-3X** Remote Speaker/Microphone.
- RSP-5** High audio output external speaker provides 5 Watts audio output external speaker with loud and clear reception on incoming calls.

SPECIFICATIONS

General:	PBS-150	PBS-450	PBS-454
FCC ID:	AIERIT01-150	AIERIT01-450	AIERIT06-450
FCC Rule Parts:	22, 74, 90	22, 74, 90, 95	15, 22, 74, 90, 95
Frequency Range:	150-162 MHz* 150-155 MHz (std.)	450-470 MHz* 460-470 MHz (std.)	450-470 MHz
Max. Freq Separation:	5 MHz	10 MHz	20 MHz
RF Channels:	2	2	2
Trunking System/Groups:	NA	NA	2
Channel Spacing:	5 kHz	12.5 kHz	12.5 kHz
Frequency Stability: (-30°C to +50°C)	± 5 ppm	± 5 ppm	±2 ppm TX
Selective Signaling:	CTCSS	CTCSS	CTCSS/DCS/LTR/ PassPort Trunking
Programming:	PTT or PC	PTT or PC	PC
Transmitter			
RF Power Output:	2 Watts	2 Watts	1-3 Watts Programmable
Modulation:	16KOF3E,	16KOF3E,	11KOF3E,
Spurious & Harmonics	- 55 dBc	- 55 dBc	- 55 dBc
Audio Response:	Meets FCC & EIA Requirements		
FM Hum and Noise:	Better than -40 dB		
Audio Distortion:	Less than 3%		
Time Out Timer:	60 seconds	60 seconds	0-255 seconds Programmable
Receiver			
Receiving System:	Dual Conversion, superheterodyne		
I.F. System:	10.7 MHz/455 kHz	21.4 MHz/455 kHz	43.65 MHz/450 kHz
Sensitivity	.25µV Max.	.30µV Max.	.25µV Max.
(12 dB SINAD):	.20µV Typical	.25µV Typical	.20µV Typical
Selectivity (EIA):	- 65 dB @ 30 kHz	- 65 dB @ 25 kHz	- 70 dB @ 25 kHz
Spurious Rejection (EIA):	- 65 dB	- 65 dB	- 70 dB
Image Rejection (EIA):	- 50 dB	- 40 dB	- 70 dB
Intermodulation (EIA):	- 65 dB	- 65 dB	- 65 dB
Modulation Acceptance:	± 7.5 kHz	± 7.5 kHz	± 7.0 kHz WB ± 3.75 kHz WB
Audio Output:	1 Watt into 8 Ohm with less than 5% distortion		
Base Station/Mobile Radio includes AFB-1545 flex antenna, RPS-1A 110 VAC power supply and user manual.			
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