

NEW

PATRIOT SST PLUS ULTRA SMALL. FLEXIBLE FEATURES. ECONOMICAL.

The all new Patriot SST Plus portable radios feature new firmware and a new high performance electronics package.

This new portable radio design utilizes a more powerful microprocessor which provides an enhanced set of features/benefits and performance for the user.

- Synthesized/Programmable — 3 Watts/4 Channels/ Modes
- Conventional or Trunked Operation (LTR[®] and PassPort[®] protocols)
- Wide (25 KHz) or Narrow (12.5 KHz) Bandwidth Modes
- Built-In QC/DQC Signalling
- Scan
- Dual Function LED
- User Removable and Changeable Battery Pack
- One Year Factory Warranty
- The latest in surface mount technology provides an electronics design that is strong and durable, yet extremely small
- Features the PassPort[®] trunking protocol and electronic serial number
- Unique radio ID code and protocol provides automatic roaming between cooperating interconnected systems
- Ultra compact ergonomic styling easy to hold and operate
- Battery Status Alert Tones
- Adjustable Battery Saver Timing
- Ability to record operational data: run times, standby, RX, TX accumulated.

- Conventional/Trunked operation.
- UHF frequency band.
- 3 Watt transmitter.

- Field reprogrammable FLASH microcontrollers for updates, enhancements and custom applications.



PATRIOT[®] SST PLUS
BY RITRON

ACCESSORIES



Remote Speaker/ Microphone

Attaches to clothing close to your mouth and ears allowing easy communication without removing the radio from your belt.



Earphone

6 foot cord and right angle plug.



Headsets

A single or dual ear headset with boom mic and in-line PTT allows use of the radio without removing it from the belt.



Carrying Holsters

Durable holster with belt loop protects the radio and provides carrying convenience.



Single Unit Desktop Charger

Standard rate charger. Charges one battery at a time (with or without radio attached). Requires BC-A wall charger.



Single Unit Desktop Charger/Conditioner

Fast rate charger. Condition mode exercises the battery pack for prolonged battery life. Charges or conditions one battery at a time (with or without radio attached).



Antennas

Optional low profile 3" antennas are available for both VHF and UHF. For best coverage the standard 6" antenna is recommended.



Belt Clip

Tough, injection molded belt clip. Comes standard with each radio.

SST PLUS FEATURES PROGRAMMABLE PER CHANNEL:

- Conventional or Trunked operation
- Transmitter wide or narrow channel bandwidth (25 KHz/125 KHz)
- Transmitter power — 1 to 3 watts
- Signalling QC/DQC
- Carrier squelch
- Busy channel transmit inhibit
- Monitor inhibit
- Power Saver

GENERAL SPECIFICATIONS

Size: 4.75"H x 2.2"W x 1.43"D

Weight: 11.5 ounces w/battery

Environmental: Splash Resistant and Shock and Vibration per Ritrion Drop Test (6 ft. drop onto concrete on all 6 sides)

FCC parts: 80, 90, 74, 22, 95

Industry Canada: RSS-119

Operating Frequency Range:

(20 MHz Bandwidth) (10 MHz Bandwidth)
450-470 MHz 136-174 MHz

470-490 MHz

480-512 MHz

430-450 MHz

Temperature Range:

-30° C to +60° C Operating,

-30° C to +70° C Storage

Synthesizer Step Size: 5, 6.25, 12.5 KHz

Frequency Stability, TX/RX:

2.0 ppm over Operating Temperature Range.

800 mAH Battery Life at 90/5/5:

9.1 Hours, Battery Saver On, TX High Power (3W)

12.7 Hours, Battery Saver On, TX Low Power (1W)

6.5 Hours, Battery Saver Off/Trunking, TX High Power (3W)

8.2 Hours, Battery Saver Off/Trunking, TX Low Power (1W)

1350 mAH Battery Life at 90/5/5:

15.3 Hours, Battery Saver On, TX High Power (3W)

21.5 Hours, Battery Saver On, TX Low Power (1W)

11 Hours, Battery Saver Off/Trunking, TX High Power (3W)

13.8 Hours, Battery Saver Off/Trunking, TX Low Power (1W)

Number of Channels/Modes:

Conventional: 4 Channel. Independent TX/RX Frequencies.

LTR Trunking: 40 Channels in any of 4 combinations of Systems and Groups.

Signalling: CTCSS Encode Decode (EIA)

Digital Coded Squelch Encode/Decode (EIA)

LTR Trunking

PassPort Trunking

Note: LTR TX/RX Polarity is programmable on a per radio basis.

RECEIVER SPECIFICATIONS

	Wide Mode	Narrow Mode
Acceptance:	+/- 7.00 KHz	+/- 3.75 KHz
Sensitivity, SINAD:	.3 µV	.3 µV
Sensitivity, 20dB Quieting:	.5 µV	.5 µV
Adjacent Channel Rejection:	-70 dB	-60 dB
Intermodulation Rejection:	-70 dB	-60 dB
Image Rejection:	-60 dB	-70 dB
Spurious Rejection:	-60 dB	-70 dB

Local Oscillator Emission: RSS-119 or better

Squelch Sensitivity: Programmable. Factory set at threshold 12 dB SINAD.

Note: The narrow band radio's receiver is manufactured using different component values at the factory. It is not possible to change in the field between narrow and wide band.

Frequency Response: 300 - 3000 Hz, de-emphasized

Audio Output Power: 1 Watt into 8 Ohms at less than 3% distortion

Method: Dual Conversion, Superhetrodyne

Intermediate Frequencies: 1st 43.65 MHz
2nd 450 KHz

TRANSMITTER SPECIFICATIONS

	Wide Mode	Narrow Mode
Emission Designator:	16KOF3E	11KOF3E
Deviation:	+/-5.00 KHz	+/-2.50 KHz
FM Hum, Noise:	-43 dB	-37dB
Distortion:	<3%	<6%

Spurious & Harmonics: 50 dBc

Power Output: 3 Watts High, 2 Watts Medium, 1 Watt Low

YOUR DEALER IS:

PATRIOT® SST PLUS
BY RITRON

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