

NEW

PATRIOT RTX PLUS GIVES YOU THE EDGE.

The all new Patriot RTX Plus portable features new firmware and a new high performance electronics package.

- Provides superior TX/RX sound quality and enhanced features.
- Conventional/Trunked operation.
- 5 watt transmitter.

- Synthesized/Programmable—5 Watts/11 Channels/Modes
- Conventional and Trunked Operation (LTR[®] and PassPort[®] protocols)
- Wide band operation —20 MHz VHF, 30 MHz UHF
- Multi-Mode Wide/Narrow Bandwidth Switching
- Built-in QC/DQC/DTMF Encode
- Scan
- One Year Factory Warranty
- The latest in surface mount technology provides an electronics design that is strong and durable.
- Features the PassPort[®] trunking protocol and Electronic Serial Number.
- Unique radio ID code and protocol provides automatic roaming between cooperating interconnected systems.
- Ability to record performance data, accumulated standby/RX and TX run times.
- Ergonomic styling — easy to hold and operate.
- Battery Status Alert Tones.
- Alert Tone and Automatic Reduction of Transmitter Power.
- Adjustable Battery Saver Timing.

- Field reprogrammable FLASH microcontrollers for updates, enhancements and custom applications
- VHF/UHF frequency band.



PATRIOT[®] RTX 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.



Two Unit Desktop Charger

Dual rate fast charger. Charges two batteries at a time (with or without radio attached).



Touch Tone Keypad

Enables unit to be used as radio, telephone, or for remote control applications.



Antennas

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



Belt Clip

Sturdy 4" stainless steel belt clip. Comes standard with each radio.

RTX PLUS FEATURES PROGRAMMABLE PER CHANNEL:

- Conventional or Trunked Operation
- Wide or narrow channel bandwidth (25 KHz/12.5 KHz)
- Companding for noise reduction and increased intelligibility (Same EIA Std. as cellular)
- Transmitter power - 5 or 2 Watts
- VOX
- Signalling QC/DQC/DTMF Encode
- Special mode output for devices such as scrambling, ANI or controller modules
- Carrier squelch

GENERAL SPECIFICATIONS

Size: 6.75"H x 2.5"W x 1.5"D

Weight: 18 ounces w/battery

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

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

Industry Canada: RSS-119

Operating Frequency Range:

(30 MHz Bandwidth)	(20 MHz Bandwidth)
400-430 MHz	150-170 MHz
450-480 MHz	144-164 MHz
470-500 MHz	154-174 MHz
480-512 MHz	136-156 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

Supply Voltage: 9.60 VDC Nominal from 8 AA cells

8.00 VDC Minimum

11.5 VDC Maximum

850 mAH Battery Life at 90/5/5:

8.1 Hours, Battery Saver On, TX High Power

13.5 Hours, Battery Saver On, TX Low Power

6.5 Hours, Battery Saver Off/Trunking, TX High Power

9.0 Hours, Battery Saver Off/Trunking, TX Low Power

1200 mAH Battery Life at 90/5/5:

11.5 Hours, Battery Saver On, TX High Power

17.5 Hours, Battery Saver On, TX Low Power

9.0 Hours, Battery Saver Off/Trunking, TX High Power

12.5 Hours, Battery Saver Off/Trunking, TX Low Power

Indicators: Light Emitting Diode (LED)

Dual Color, Red/Green

Green Flashing—Channel Busy

Red—Transmit Enabled

Number of Channels/Modes:

11 via top mounted detented rotary selector.

16 via rotary selector plus bank selection.

176 via optional keyboard to select up to 16 banks.

Signalling: Digital Coded Squelch Encode/Decode (EIA)

TouchTone Encode Decode

CTCSS Encode Decode

LTR Trunking

PassPort Trunking

Two Tone Sequential Encode Decode*

MDC-600/1200*

G-STAR*

*Available in future firmware revisions

DQC Decode Time: per EIA or better

QC Decode Time: per EIA or better

Keypad Option:

4 rows by 3 columns

DTMF encode

Channel bank selection

Direct Frequency entry for qualified users

Redial Last Number

Dial Preprogrammed Number

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

RECEIVER SPECIFICATIONS

	Wide Mode	Narrow Mode
Modulation 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:	-70 dB	-70 dB
Spurious Rejection:	-70 dB	-70 dB

Local Oscillator Emission: RSS-119 or better

Squelch Sensitivity: Programmable per channel.

Factory set to break at 12 dB SINAD

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	-37 dB
Distortion:	<3%	<6%

Spurious & Harmonics: -50 dBc

Power Output: 5 Watts High, 1-2 Watts Low

YOUR DEALER IS:

PATRIOT® RTX PLUS
BY RITRON

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