



GENERAL

	<u>VHF</u>	<u>UHF</u>
Model No.:	RQX-156/XT	RQX-456/XT
FCC ID:	AIERIT18-156	AIERIT18-456
Industry Canada ID:	1084A-RIT18-156	1084A-RIT18-456
FCC Rule Parts:	74, 90, 95J	74, 90, 95A
Frequency Range:	150-165 MHz	450-470 MHz
Max. Freq. Separation:	15 MHz	20 MHz
RF Channels:	1 Channel, Independent TX/RX frequencies.	
Synthesizer Step Size:	2.5 kHz	6.25 kHz
Frequency Stability (-30 C to +60 C):	± 2.5 PPM TX/RX	± 1.5 PPM TX/RX
Tone/Code Signaling:	CTCSS (Quiet Call) Digital Coded Squelch (Digital Quiet Call) Selcall ID Encode 2-Tone Paging Decode DTMF ANI Encode	
Dimensions:	Light Duty: 7.0" H x 5.0" W x 3.0" D	
	XT: 11.5" H x 9.5" W x 3.0" D	
Weight:	Light Duty: 3 lb. 12 oz. w/ antenna & 6 D-cell batteries	
	XT: 9 lb. 10 oz. w/ antenna & 6 D-cell batteries	
Enclosure Material:	Light Duty: Velox & Thermo Plastic O-ring sealed	
	XT: Velox & Reinforced Fiberglass	
Environmental:	Splash resistant, shock & vibration per Ritron test	
RJ11 Telephone Jack:	Internal RJ11 jack is used for PC programming	
Antenna Fitting:	50 Ω BNC Connector	

RECEIVER

	<u>Wide Mode</u>	<u>Narrow Mode</u>	<u>Wide Mode</u>	<u>Narrow Mode</u>
Modulation Acceptance:	± 5.0 kHz	± 3.75 kHz	± 5.0 kHz	± 3.75 kHz
Sensitivity (12 dB SINAD):	0.15 μV	0.19 μV	0.16 μV	0.18 μV
Adjacent Channel (EIA):	- 70 dB	- 60 dB	- 70 dB	- 60 dB
Spurious Rejection:	- 70 dB	- 60 dB	- 70 dB	- 60 dB
Image Rejection (EIA):	- 60 dB	- 60 dB	- 80 dB	- 80 dB
Intermodulation (EIA):	- 65 dB	- 65 dB	- 65 dB	- 65 dB
Noise Squelch Sensitivity:	Programmable per channel, factory set for 12 dB SINAD			
Frequency Response:	300 - 3000 Hz, de-emphasized		300 - 3000 Hz, de-emphasized	
2-Tone Frequency Range:	300 - 1500 Hz		300 - 1500 Hz	
2-Tone Decode Deviation Requirement:	2.5 - 3.5 kHz	1.5 - 2.5 kHz	2.5 - 3.5 kHz	1.5 - 2.5 kHz
Audio Output:	1 Watt into 8 Ω, with < 5 % THD @ the earphone jack			
Receiving System:	Dual conversion superheterodyne			
I.F. System:	1st-43.65 MHz, 2nd - 450 kHz		1st-43.65 MHz, 2nd - 450 kHz	
L.O. Injection:	Low side	Low side	High side	High side
QC/DQC Decode Deviation Requirement:	500 - 850 Hz	350 - 500 Hz	500 - 850 Hz	350 - 500 Hz
QC/DQC Decode Time:	per EIA Standards			

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TRANSMITTER

	<u>Wide Mode</u>	<u>Narrow Mode</u>	<u>Wide Mode</u>	<u>Narrow Mode</u>
Emission Designator:	16K0F3E	11K0F3E	16K0F3E	11K0F3E
Deviation:	± 5.00 kHz	± 2.50 kHz	± 5.00 kHz	± 2.50 kHz
FM Hum and Noise:	- 48 dB	- 40 dB	- 48 dB	- 40 dB
Audio Distortion:	< 3 %	< 6 %	< 3.5 %	< 6 %
RF Power Output @ + 13 VDC:	1.0 Watt	1.0 Watt	2.0 Watts	2.0 Watts
Spurious & Harmonics:	- 57 dBc	- 57 dBc	- 55 dBc	- 55 dBc
Audio Response:	Meets FCC & EIA requirements			
Time-out Timer:	60 seconds, programmable			

POWER REQUIREMENTS w/ INTERNAL BATTERIES

	<u>VHF</u>	<u>UHF</u>
Off:	0 mA	0 mA
Sleep:	60 mA	40 mA
Standby:	105 mA	80 mA
Avg. Standby w/ Power Saver:	65 mA	45 mA
Receive:	190 mA	165 mA
Transmit:	550 mA @ 1.0 Watt	425 mA @ 1.0 Watt 525 mA @ 1.5 Watts
Power Supply:	All models, Internal 6 D-Cell Battery Holder	

BATTERY LIFE @ 1 WATT w/ 6 D-CELL BATTERIES

		<u>Alkaline</u>	<u>Ni-Cd</u>
Battery Life:	VHF	479 days	171 days
	UHF	544 days	194 days
Capacity:		14,000 mA _H	5,000 mA _H
Usage/Day:		10 times	10 times
Receiver:		10 seconds each time	10 seconds each time
Transmit:		10 seconds each time	10 seconds each time
Standby:		40 seconds each time	40 seconds each time

POWER REQUIREMENTS w/ EXTERNAL +12VDC IN

	<u>VHF</u>	<u>UHF</u>
Off:	0 mA	0 mA
Sleep:	60 mA	50 mA
Standby:	105 mA	90 mA
Avg. Standby w/ Power Saver:	65 mA	65 mA
Receive:	190 mA	180 mA
Transmit:	550 mA @ 1.0 Watt	425 mA @ 1.0 Watt 575 mA @ 1.5 Watts
Power Supply:	All models, Internal connector for external 12 VDC supply	

CONTROLS

On/PTT:	Radio emits the Transmit Beep when turned on and will transmit as long as the button is pressed.
Program Button:	Internal button is used for field programming the 7 Series callbox.
Programming Display:	Internal display indicates the programming digits when field programming the RQX callbox.