

XTS™ 2500 RB, XTS™ 1500 RB

Portable Radios for 800 MHz Rebanding

XTS 2500 AND 1500 RB RADIO FEATURES:

Supports analog Motorola Type II 3600 Control Channel trunking with digital upgrades available

Supports SmartNet and SmartZone operation depending on the radio configuration

Supports analog Motorola MDC-1200 Conventional operation along with traditional PL/DPL functionality

Meets Military Standards 810 C, D, E and F

Utilizes Customer Programming Software and supports USB and RS-232

Supports enhanced audio features: noise reduction software and audio gain control

Flexible Channel Support

- 255 Channels available on the XTS 2500 RB
- 48 Channels available on the XTS 1500 RB

Traditional radio dispatch, Private Call, Page, advanced channel scanning features

Easily upgradeable from Rebanding configuration to traditional XTS 2500 and XTS 1500 radios for advanced digital trunking/conventional operation, enlarged channel capacity, and 700 MHz support.



Durable, Dependable, Flexible.

Motorola's portable radios for Rebanding replacement are flexible digital capable solutions in a compact, durable form factor suited for public safety and public utilities environments. These high-quality APCO Project 25 capable radios feature a complete list of two-way functionality that is very easy to use.

Created to be a comparable replacement for most portables that can't be rebanded, the XTS portables support Motorola Type II trunking and advanced conventional operation.

The Rebanding Replacement portable radios are fully upgradeable to traditional XTS 2500 and XTS 1500 products. Enhancing the Rebanding Replacement portable radios allows users the ability to support APCO Project 16 and Project 25 operation in addition to 700 MHz.

These models are only available to systems that require replacements of units in order to reconfigure the system for the new 800 MHz band plan.

RADIO MODELS

	Display	Keypad	Channel Capacity	FLASHport Memory	Radio Model	FCC Designator
XTS 1500	None	None	48	4MB	H66UCC9PW2AN	AZ489FT5804
XTS 2500	2 Lines Icon 4 Lines 12 Characters	3x6 DTMF	255	4MB	H46UCH9PW2AN	AZ489FT5804
FCC Emission Designator	11K0F3E, 16K0F3E, 8K10F1E, 8K10F1D, 20K0F1E					
Power Supply	One Rechargeable nickel-cadmium or nickel-metal hydride					
Dimension w/o Battery (HxWxD)	6.00" x 2.30" x 1.50"					
Weight w/o Battery	11.0 oz					

TRANSMITTER TYPICAL PERFORMANCE SPECIFICATIONS

Frequency Range	806-824, 851-869 MHz	
Channel Spacing	12.5 / 20 / 25 kHz	
Maximum Frequency Separation	Full Bandsplit	
Rated RF Output Power Adj*	806-870 MHz: 1 to 3 W	
Frequency Stability* (-30°C to +60°C; 25°C Ref.)	±0.00015%	
Modulation Limiting*	25 kHz channel	±5.0 kHz
	NPSAC channel	±4.0 kHz
	12.5 kHz channel	±2.5 kHz
Emissions* (Conducted & Radiated)	-75 dBc	
Audio Response* (6 dB/Octave Pre-emphasis from 300 to 3000 Hz)	+1, -3 dB	
FM Hum & Noise Ratio*	25 kHz	-43 dB
	12.5 kHz	-40 dB
Audio Distortion*	2.0%	

RECEIVER TYPICAL PERFORMANCE SPECIFICATIONS

Frequency Range	851-869 MHz	
Channel Spacing	12.5 / 20 / 25 kHz	
Maximum Frequency Separation	Full Bandsplit	
Audio Output Power at Rated*	500 mW	
Frequency Stability* (-30°C to +60°C; 25°C Ref.)	±0.00015%	
Analog Sensitivity* 12 dB SINAD	.25 µV	
Selectivity*	25 kHz channel	-72 dB
	12.5 kHz channel	-63 dB
Intermodulation*	-74 dB	
Spurious Rejection*	-75 dB	
FM Hum & Noise Ratio*	25 kHz	-47 dB
	12.5 kHz	-40 dB
Audio Distortion*	2.5%	

BATTERIES FOR THE XTS 2500 RB AND XTS 1500 RB

Battery Capacity / Type	Dimensions (HxWxD)	Weight	Battery Part Numbers	mAh	Duty Cycle
High Capacity NiCD	4.86" x 2.37" x .968"	8.85 oz	NTN9815	1525	5-5-90 / 8 hr.
High Capacity NiCD FM	4.86" x 2.37" x .968"	8.85 oz	NTN9816	1525	5-5-90 / 8 hr.
High Capacity NiMH	4.86" x 2.37" x .968"	9.63 oz	NTN9858	1800	5-5-90 / 10 hr.
High Capacity NiMH FM	4.86" x 2.37" x .968"	9.63 oz	NTN9857	1750	5-5-90 / 10 hr.

PORTABLE MILITARY STANDARDS 810 C, D, E, & F

	MIL-STD-810C		MIL-STD-810D		MIL-STD-810E		MIL-STD-810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II
High temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.1	I**	503.2	I/A1C3	503.3	I/A1C3	503.4	I
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	I**
Salt Fog	509.1	I**	509.2	I**	509.3	I**	509.4	I**
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24
Shock	516.2	I, II	516.3	I, IV	516.4	I/IV	516.5	I, IV

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C / +60°C
Storage Temperature	-40°C / +85°C
Humidity	Per MIL-STD
ESD	IEC 801-2KV
Water & Dust Intrusion	IP54, MIL-STD

ENCRYPTION (XTS 2500 RB)

Encryption Keys	16
Encryption Method	Keyloader
Encryption Algorithms	DES/DES-XL DVP-XL

* Measured in the analog mode per TIA / EIA 603 **Military Standards specify a single procedure for this test.



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