

## Specification Sheet

### LTS 2000 PORTABLE 800 MHz / 900 MHz



The LTS 2000™ has been specifically designed for radio users who need an economical radio solution that offers the flexibility of local and select wide area coverage capabilities. It was developed along with the companion LCS 2000™ mobile, which permits easy transfer of operational knowledge as users alternate between mobiles and portables.

#### **EACH PORTABLE RADIO COMES STANDARD WITH THE FOLLOWING FEATURES:**

##### **COMPANION PRODUCT TO LCS 2000 MOBILE**

- Permits easy transfer of operational knowledge as users alternate between mobiles and portables.

##### **821-824 MHz FEATURES**

- Offers the flexibility of both Mutual Aid (NPSPAC) conventional channels and trunking within 821-824 MHz.

##### **8 CHARACTER DISPLAY MAXIMUM WITH BACKLIGHTING**

- To allow for the easy identification of talkgroup, system and ID information.
  - Note: in conventional mode, maximum display is 3 characters
- No aliasing (mode names) is possible

##### **4 X 4 KEYPAD**

- Allows users to take full advantage of the telephone interconnect and private call capabilities.

##### **APCO 16 COMPLIANT TRUNKING**

- Offers SMARTNET features for advanced functionality.

##### **SMARTNET PLUS OR SMARTZONE CAPABILITY\***

- Offers user the choice of system software, depending on requirements.

##### **SMARTNET PLUS FEATURES**

*(available in 800/900 MHz)*

- Roaming features for wide area coverage.
- Telephone Interconnect.
- Enhanced Private Call/Call Alert.
- Scan/Dual Mode Scan
- Emergency Cal/Alarm
- 10 system/8 talkgroup/10 Conventional Channel Capability

##### **SMARTZONE FEATURES**

*(available in 800 MHz and 900 MHz)*

*(includes all SMARTNET Plus Features and...*

- 16 system/16 talkgroup/10 Conventional Channel Capability).
- SmartZone RSSI Operation.
- SmartZone Preferred Site.
- SmartZone Forced Site Search.
- SmartZone Talkgroup/Priority Talkgroup Scan.
- SmartZone Busy Override.



\* Please note: SmartZone operation in this radio differs from SmartZone operation in other CGISS portable radios. Please contact your Motorola representative for more information.

## GENERAL SPECIFICATIONS

Power Supply		Nickel-Cadmium Battery (Standard)	FM APPROVAL INFORMATION
Battery Voltage	Nominal:	7.5 volts	INTRINSICALLY SAFE: Class I, II, III, Division 1, Groups C, D, E, F, G. Batteries HNN9701A (high capacity), HNN9808B (low capacity). NON-INCENDIVE: Class I, Division 2, Groups A, B, C, D. Batteries HNN9701A (high capacity), HNN9808B (low capacity).
	Range:	6 to 9 volts	
Temperature Range	Operating†:	-30 to +60° C	
	Storage:	-40 to +85° C	
Physical Characteristics		Battery Part Numbers	FM Battery Part Numbers
H x W x D*	5.5" x 2.34" x 1.49" 140mm x 59mm x 45mm	HNN9628A (Standard)	HNN9701 (Optional)
Weight	18.8 oz. 540 g		
Display	8 character		
Keypad	4 x 4 Button		

\* with standard high capacity battery † display is not guaranteed to function at temperatures below -20° C

### TRANSMITTER

	800 MHz Band 806-870 MHz	900 MHz Band 896-941 MHz
Model Numbers	H10UCH6DC5_N (25 kHz)	H10WCH4DC5_N (12.5 kHz)
Frequencies	806-825 MHz 851-870 MHz	896-902 MHz T/A Freqs: 935-941 MHz
Channel Spacing	25 kHz (12.5 kHz 821-824 MHz)	12.5 kHz
Freq. Stability (-30° C to 60° C, +25° Ref.)	806-821, 825-870 MHz ±2.5 ppm 821-824 MHz ±1.5 ppm	±1.5 ppm
Power	3 W	2.5 W
Modulation Limiting	±5 kHz @ 806-821/ ±4 kHz @ 821-824	±2.5 kHz
FM Hum & Noise	-40 dB	-35 dB
Conducted/Radiated Emission	-13 dBm Per FCC	-13 dBm Per FCC
Audio Response (300-3000 Hz)	+1 to -3 dB	+1 to -3 dB
Audio Distortion	≤5%	5%

### RECEIVER

	800 MHz Band 806-870 MHz	900 MHz Band 896-941 MHz
Model Numbers	H10UCH6DC5_N (25 kHz)	H10WCH4DC5_N (12.5 kHz)
Frequencies	851-870 MHz	935-941 MHz
Channel Spacing	25 kHz (12.5 kHz 821-824 MHz)	12.5 kHz
Freq. Stability (-30° C to 60° C, +25° Ref.)	851-866 ±2.5 ppm/ 866-870 ±1.5 ppm	±1.5 ppm
Sensitivity	.35 µV (12 dB SINAD)	.35 µV (12 dB SINAD)
Intermodulation	-65 dB	-60 dB
Adjacent Channel Selectivity	-65 dB	-60 dB
Spurious Rejection	-65 dB	-60 dB
Rated Audio	.5W	.5W
Audio Distortion @ Rated Audio	≤5%	5%
Hum and Noise	-40 dB	-35 dB
Audio Response (300 - 3000 Hz)	+1 to -3 dB	+1 to -3 dB
Conducted Spurious Emission	FCC Part 15	FCC Part 15

### U.S. MILITARY STANDARDS 810C, D & E

	MI 810C		MIL 810D		MIL 810E	
	Method	Procedure	Method	Procedure	Method	Procedure
Low Pressure	500.1	I	500.2	I	500.3	I
Storage-High Temp.	501.1	I	501.2	I	501.3	I
Storage-Low Temp.	502.1	I	502.2	I	502.3	I
Operating-High Temp.	501.1	II	501.2	II	501.3	II
Operating-Low Temp.	502.1	II	502.2	II	502.3	II
Thermal Shock	503.1	I	503.2	I	503.3	I
Blowing Dust	510.1	I	510.2	I	510.3	I
Shock-Functional	516.2	I	516.3	I	516.4	I

Please note: Motorola system certification is not complete on this radio per the Motorola system certification process and requirements. Please contact your Motorola representative for more information.



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Specifications subject to change without notice.

R3-4-167E