

Specification Sheet

LCS 2000 MOBILE 800 MHz / 900 MHz



The LCS 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 LTS 2000™ portable, which permits easy transfer of operational knowledge as users alternate between mobiles and portables.



EACH MOBILE RADIO COMES STANDARD WITH THE FOLLOWING FEATURES:

COMPANION PRODUCT TO LTS 2000™ PORTABLE

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

821-824 MHz FEATURES

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

3 CHARACTER DISPLAY WITH STATUS ICONS

- For easy to read information that is illuminated for clearer visibility.

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 SYSTEM SOFTWARE (available in 800/900 MHz)

- Roaming features for wide area coverage
 - SmartZone Automatic Site Registration/De-Registration
 - SmartZone Enhanced Control Channel List
 - SmartZone Forced Site Search
 - SmartZone Site Lock/Unlock
 - Automatic Multiple Site Selection (AMSS)
- Telephone Interconnect Preprogrammed List - 9 Telephone Numbers
- Enhanced Private Call/Call Alert - Can Program 8 Radio IDs.
- Scan/Dual Mode Scan - Can Program 9 Radio IDs.
- Emergency Call/Alarm
- 10 system/8 talkgroup/10 Conventional Channel Capability

SMARTZONE SYSTEM SOFTWARE (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 Full Spectrum Scan
- SmartZone Talkgroup/Priority Talkgroup Scan
- SmartZone Adjacent Control Channel
- SmartZone Out of Range Indicator
- SmartZone Busy Override

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

STANDARD SPECIFICATIONS

800 MHz Model (806-870 MHz)	Power: 15 Watt	Model Number: M10UGD6DC5AN
900 MHz Model (896-941 MHz)	Power: 12 Watt	Model Number: M10WGD4DC5AN
Channel Capability	10/8/10	
Systems/Talkgroups/Conv. Channels	10/8/10	
Power Supply	13.8 V	
Weight	2.67 lbs	
Dimensions	1.73" H X 6.61" W X 5.67" D	
Tranceiver	1.73" H X 6.61" W X 1.0" D	
Control Head	1.73" H X 6.61" W X 1.0" D	
Metering	All adjustments and alignments are performed electronically using an IBM Personal Computer, a Radio Interface Box (RIB) and Field Maintenance Software.	
Standby @ 13.8 (open)	0.45A	
Transmit at Rated Power	6.5A	
800 MHz/900 MHz	6.5A	
Maximum Battery Drain Received @ 4W Rated Audio @13.8V	1.5A	
Operation	12 VDC Neg Ground	

TRANSMITTER

EIA/TIA-603	800 MHz	900 MHz
Frequency Stability (ppm)	806-821 MHz: ± 2.5 ppm 821-824 MHz: ± 1.5 ppm	896-902 MHz: ± 1.5 ppm 935-941 MHz: ± 1.5 ppm
% of assigned center frequency -30 to +60 degrees C ambient		
Modulation Limiting	806-821 MHz: 5.0 kHz 821-824 MHz: 4.0 kHz	896-902 MHz: 2.5 kHz 935-941 MHz: 2.5 kHz
Power	15W @ 806-825 MHz 10W @ 851-870 MHz	12W @ 896-902 MHz 10W @ 935-941 MHz
Channel Spacing	25 kHz	12.5 kHz
Audio Sensitivity	0.080V ± 3 dB	0.080V ± 3 dB
Audio Distortion	$\leq 5\%$	$\leq 5\%$
Audio Response	+1 to -3 dB	+1 to -3 dB
Spurious and Harmonics	-56 dBc	-56 dBc
Radiated Spurious	-13 dBm	-13 dBm
Output Impedance	50 Ohms	50 Ohms
Modulation	16K0F3E, 15K6F1D	11K0F2D, 11K0F3E
Occupied Bandwidth	13 kHz @ 25 kHz channel spacing	9 kHz @ 12.5 kHz channel spacing
FM Hum & Noise	-40 dB	-35 dB
Maximum Frequency Separation	63 MHz	45 MHz

RECEIVER

EIA/TIA-603	800 MHz	900 MHz
Channel Spacing	25 kHz	12.5 kHz
Sensitivity (μ V)	0.35	0.35
Frequency Stability (ppm)	851-866 MHz: ± 2.5 ppm	935-941 MHz: ± 1.5 ppm 866-870 MHz: ± 1.5 ppm
Adjacent Channel Selectivity	-65 dB	-65 dB
Intermodulation	-65 dB	-60 dB
Spurious & Image Rejection	-65 dB	-65 dB
Rated Audio Options	4W Internal Spkr 7.5W	4W Internal Spkr 7.5W
Cond/Spurious Emissions	FCC Part 15	FCC Part 15
Audio Response (300 to 3000 Hz)	+1 to -3 dB	+1 to -3 dB
Audio Distortion @ Rated Audio	5%	5%
Max. Frequency Separation	18 MHz	6 MHz
FM Hum and Noise	-40 dB	-35 dB
Input Impedance	50 Ohms	50 Ohms
Audio Output (optional)	4W @ 5% distortion 7.5W @ 5% distortion	4W @ 5% distortion 7.5W @ 5% distortion

SPEAKER (OPTIONAL) 7.5W

Dimensions	5" H x 5" W x 2.7" D
Weight	20.4 ounces

FCC INFORMATION

	15W 800 MHz	12W 900 MHz
Type Acceptance Number	AZ492FT5779	AZ492FT5782

U.S. MILITARY STANDARDS

Applicable MIL-STD	810C Method	810C Procedure	810D Method	810D Procedure	810E Method	810E Procedure
Low Pressure	500.1	1	500.2	1	500.3	1
High Temp. Storage	501.1	1	501.2	1	501.3	1
High Temp. Operational	501.1	2	501.2	2	501.3	2
Low Temp. Storage	502.1	1	502.2	1	502.3	1
Low Temp. Operational	502.1	2	502.2	2	502.3	2
Thermal Shock	503.1	1	503.2	1	503.3	1
Blowing Dust	510.1	1	510.2	1	510.3	1
Shock Functional	516.2	1	516.3	1	516.4	1
Shock Crash Hazard	516.2	2	516.3	2	516.4	2

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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