

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

KC2XAJ

(Call Sign)

XD FX MO

(Class of Station)

0263-EX-RR-2009

(File Number)

NAME MOTOROLA, INC., (ENGINEERING SUPPORT SERVICES)

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(d, f, g, i) of the Commission's Rules

Station Locations

(1) US; MOBILE: NATIONWIDE

Frequency Information

US; MOBILE: NATIONWIDE

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25.01-25.07 MHz	MO	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	200 W (ERP)	
25.01-25.07 MHz	FX	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	200 W (ERP)	

This authorization effective December 01, 2009 and
will expire 3:00 A.M. EST December 01, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

US; MOBILE: NATIONWIDE

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25.21-37.5 MHz	FX	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	200 W (ERP)	
25.21-37.5 MHz	MO	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	200 W (ERP)	
38-40 MHz	FX	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	200 W (ERP)	
38-40 MHz	MO	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	200 W (ERP)	
42-49.6 MHz	FX	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	200 W (ERP)	

Frequency Information

US; MOBILE: NATIONWIDE

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
42-49.6 MHz	MO	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	200 W (ERP)	
72-73 MHz	FX	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
72-73 MHz	MO	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
75.4-76 MHz	FX	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
75.4-76 MHz	MO	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	300 W (ERP)	

Frequency Information

US; MOBILE: NATIONWIDE

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.8-157.0375 MHz	MO	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
150.8-157.0375 MHz	FX	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
157.1875-162.0125 MHz	FX	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	300 W (ERP)	
157.1875-162.0125 MHz	MO	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
173.2-173.4 MHz	MO	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	300 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
173.2-173.4 MHz	FX	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	300 W (ERP)	
451-460 MHz	FX	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
451-460 MHz	MO	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
470-512 MHz	MO	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	300 W (ERP)	
470-512 MHz	FX	20K0F1D 20K0F9W 20K0F3E 20K0F1E 20K0F2D	300 W (ERP)	

Frequency Information

US; MOBILE: NATIONWIDE

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-821 MHz	MO	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	100 W (ERP)	
806-821 MHz	FX	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	100 W (ERP)	
821-824 MHz	FX	16K8F1E 14K0F3E 14K0F1D 14K0F2D	100 W (ERP)	
821-824 MHz	MO	16K8F1E 14K0F3E 14K0F1D 14K0F2D	100 W (ERP)	
851-866 MHz	MO	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	500 W (ERP)	
851-866 MHz	FX	20K0F2D	500 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
851-866 MHz	FX	20K0F1E 20K0F3E 20K0F9W 20K0F1D	500 W (ERP)	
866-869 MHz	FX	16K8F1E 14K0F3E 14K0F1D 14K0F2D	500 W (ERP)	
866-869 MHz	MO	16K8F1E 14K0F3E 14K0F1D 14K0F2D	500 W (ERP)	
896-901 MHz	FX	13K6F2D 13K6F1E 13K6F3E 13K6F9W 13K6F1D	100 W (ERP)	
896-901 MHz	MO	13K6F2D 13K6F1E 13K6F3E 13K6F9W 13K6F1D	100 W (ERP)	
929-930 MHz	FX	20K0F2D 20K0F1E	300 W (ERP)	

Frequency Information

US; MOBILE: NATIONWIDE

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
929-930 MHz	FX	20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
929-930 MHz	MO	20K0F2D 20K0F1E 20K0F3E 20K0F9W 20K0F1D	300 W (ERP)	
935-940 MHz	FX	13K6F2D 13K6F1E 13K6F3E 13K6F9W 13K6F1D	300 W (ERP)	
935-940 MHz	MO	13K6F2D 13K6F1E 13K6F3E 13K6F9W 13K6F1D	300 W (ERP)	

Special Conditions:

- (1) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (2) Operation is subject to prior coordination with the Associated Public Safety Communications Officers, Inc. (APCO); ATTN: Ronald Haraseth; 351 North Williamson Blvd.; Daytona Beach, FL 32114-1112; Telephone: (386) 322-2500.

Special Conditions:

- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (6) Licensee is authorized to transmit only on frequencies specified in Part 90 of the Commission's Rules.
- (7) Licensee is authorized to operate up to 50 units.
- (8) Operation in the band 470-512 MHz is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (9) Operation requires consent of affected existing and future Specialized Mobile Radio (SMR) licensee(s) to avoid interference.