

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

EXPERIMENTAL

(Nature of Service)

XE FX MO

(Class of Station)

WI2XUM

(Call Sign)

0162-EX-CN-2017

(File Number)

NAME Motorola Solutions, Inc.

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(c) of the Commission's Rules

Station Locations

- (1) Schaumburg, IL - NL 42-04-17; WL 88-03-21; MOBILE: Four temporarily fixed base and associated mobiles, within 20 km, centered around NL 42-04-17; WL 88-03-21
- (2) Chicago, IL - NL 41-52-51; WL 87-38-24; MOBILE: Four temporarily fixed base and associated mobiles, within 20 km, centered around NL 41-52-51; WL 87-38-24
- (3) Winter, WI - NL 45-52-37; WL 90-58-00; MOBILE: Four temporarily fixed base and associated mobiles, within 20 km, centered around NL 45-52-37; WL 90-58-00

Frequency Information

Schaumburg, IL - NL 42-04-17; WL 88-03-21; MOBILE: Four temporarily fixed base and associated mobiles, within 20 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3550 MHz	FX	20M0W7W 10M0W7W 7M00W7W 5M00W7W 10K0N0N	100 W (ERP)	
3300-3550 MHz	MO	20M0W7W 10M0W7W 7M00W7W	3.2 W (ERP)	

This authorization effective April 20, 2017 and
will expire 3:00 A.M. EST May 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Schaumburg, IL - NL 42-04-17; WL 88-03-21; MOBILE: Four temporarily fixed base and associated mobiles, within 20 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3550 MHz	MO	5M00W7W 10K0N0N	3.2 W (ERP)	
3350-3700 MHz	FX	20M0W7W 10M0W7W 7M00W7W 5M00W7W 10K0N0N	100 W (ERP)	
3350-3700 MHz	MO	20M0W7W 10M0W7W 7M00W7W 5M00W7W 10K0N0N	3.2 W (ERP)	

Chicago, IL - NL 41-52-51; WL 87-38-24; MOBILE: Four temporarily fixed base and associated mobiles, within 20 km, centere

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3550 MHz	FX	20M0W7W 10M0W7W 7M00W7W 5M00W7W 10K0N0N	100 W (ERP)	
3300-3550 MHz	MO	20M0W7W 10M0W7W 7M00W7W 5M00W7W	3.2 W (ERP)	

Frequency Information

Chicago, IL - NL 41-52-51; WL 87-38-24; MOBILE: Four temporarily fixed base and associated mobiles, within 20 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3550 MHz	MO	10K0N0N	3.2 W (ERP)	
3350-3700 MHz	FX	20M0W7W 10M0W7W 7M00W7W 5M00W7W 10K0N0N	100 W (ERP)	
3350-3700 MHz	MO	20M0W7W 10M0W7W 7M00W7W 5M00W7W 10K0N0N	3.2 W (ERP)	

Winter, WI - NL 45-52-37; WL 90-58-00; MOBILE: Four temporarily fixed base and associated mobiles, within 20 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3550 MHz	FX	20M0W7W 10M0W7W 7M00W7W 5M00W7W 10K0N0N	100 W (ERP)	
3300-3550 MHz	MO	20M0W7W 10M0W7W 7M00W7W 5M00W7W	3.2 W (ERP)	

Frequency Information

Winter, WI - NL 45-52-37; WL 90-58-00; MOBILE: Four temporarily fixed base and associated mobiles, within 20 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3550 MHz	MO	10K0N0N	3.2 W (ERP)	
3350-3700 MHz	FX	20M0W7W 10M0W7W 7M00W7W 5M00W7W 10K0N0N	100 W (ERP)	
3350-3700 MHz	MO	20M0W7W 10M0W7W 7M00W7W 5M00W7W 10K0N0N	3.2 W (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Maintain separation from the grandfathered earth stations as defined in Part 90, Sub-part Z, or coordinate and agreement with the grandfathered earth station licensees prior to accessing to 3650-3700 MHz.
- (4) Ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in each proposed area.
- (5) The transmit power is limited as prescribe in 47 C.F.R. §96.41 to ensure compatibility with incumbent FSS operators in the 3600-3700 MHz band.
- (6) Transmitters must comply with earth station protection requirements established in 47 C.F.R. §96.17 (a) and 47 C.F.R. §96.17 (f).

Special Conditions:

- (7) Motorola Solution Inc. must notify all earth stations within 40 km of the locations cited in this grant. The notice must include Motorola's stop buzzer point of contact information to notify the testing operator(s) to shut down in case of interference. The notification should also include the testing parameters, the day and times of each test. Consult MyIBFS database in the FCC.GOV website to identify all existing license FSS earth stations in the 3600-3700 MHz band.
- (8) Ensure that the transmitting station antenna(s) tilt downward when possible to protect satellite earth stations nearby.
- (9) Prior to the start of operations in the 3625 -3700 MHz band, licensee must notify the National Spectrum Managers Association (NSMA) frequency coordinator by e-mail. This notice must include the name and contact information of the stop buzzer personnel. It must also include the testing parameters, day and times of each testing. NSMA contact information can be found in the website:
http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave.