

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WJ2XJX

(Call Sign)

0304-EX-CM-2019

(File Number)

NAME Blackrock Microsystems, LLC

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(h) of the Commission's Rules

Station Locations

- (1) MOBILE: Boston, MA, within 300 km, centered around NL 42-21-46; WL 71-04-07
- (2) MOBILE: Cleveland, OH, within 300 km, centered around NL 41-30-15; WL 81-36-30
- (3) MOBILE: Palo Alto, CA, within 300 km, centered around NL 37-25-48; WL 122-10-12

Frequency Information

MOBILE: Boston, MA, within 300 km, centered around NL 42-21-46; WL 71-04-07

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 3.2-3.8 GHz | MO            | 100MF1D             | 1 mW (ERP)       | 0.001 %                   |

MOBILE: Cleveland, OH, within 300 km, centered around NL 41-30-15; WL 81-36-30

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 3.2-3.8 GHz | MO            | 100MF1D             | 1 mW (ERP)       | 0.001 %                   |

This authorization effective December 19, 2019 and  
will expire 3:00 A.M. EST April 01, 2020

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Palo Alto, CA, within 300 km, centered around NL 37-25-48; WL 122-10-12

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 3.2-3.8 GHz | MO            | 100MF1D             | 1 mW (ERP)       | 0.001 %                   |

## Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) Consult the ULS database to ensure that the proposed tests will not cause adverse effect to any existing registered stations in the 3650-3700 MHz band and notify registered users in the immediate geographic area prior to operating in the 3650 - 3700 MHz band.
- (4) Operation is subject to coordinate with the affected Fixed Microwave licensees in the immediate vicinity before operating in 3700-3800 MHz band.
- (5) Prior to the start of operations in the 3650 -3700 MHz band, the company must notify Comsearch 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.  
Contact: Comsearch  
Email: customersupport@comsearch.com
- (6) Prior to the start of operations in the 3650 -3700 MHz band, the company must notify all the earth stations in band and adjacent band (3700-4200 MHz) within 15 km of their operations by e-mail. This notice must include the name and contact information of the stop buzzer personnel in order to notify the test equipment operator(s) to shut down in case of interference. The notification should also include the testing parameters and the day and times of each test. Consult MyIBFS database to identify all existing registered earth stations in band (3650-3700 MHz) and adjacent band (3700-4200 MHz).
- (7) Prior to operation in the 3650-3700 MHz frequency band, experimental licensee must maintain a separation distance of 150 km from the grandfathered earth stations as defined in Part 90 subpart Z. If operations are within 150 km from the grandfathered earth stations then experimental licensee must notify potentially-affected grandfathered earth stations licensee(s) and obtain a mutual agreement. The coordinates of these stations are available at <http://www.fcc.gov/ib/sd/3650/grandftr.pdf>.