

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WJ2XGZ

(Call Sign)

0001-EX-CR-2020

(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: Houston, TX, within 30 km, centered around NL 29-41-55; WL 95-23-38
- (2) MOBILE: Houston, TX, within 30 km, centered around NL 29-41-55; WL 95-23-38
- (3) MOBILE: Houston, TX, within 30 km, centered around NL 29-41-55; WL 95-23-38

Frequency Information

MOBILE: Houston, TX, within 30 km, centered around NL 29-41-55; WL 95-23-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.5-4.5 GHz	MO	1G00A1D	350 uW (ERP)	0.0001 %

MOBILE: Houston, TX, within 30 km, centered around NL 29-41-55; WL 95-23-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.75-4.25 GHz	MO	500MA1D	140 uW (ERP)	0.0001 %

This authorization effective February 01, 2020 and
will expire 3:00 A.M. EST February 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Houston, TX, within 30 km, centered around NL 29-41-55; WL 95-23-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12.49-12.51 MHz	MO	NON	508 mW (ERP)	0.0001 %

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 operation separation from the grandfathered earth stations as defined in Part 90, Sub-part Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3.5- 4.5 GHz band.
- (4) Consult the ULS database to 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 the proposed geographic area.
- (5) The applicant must coordinate with the Fixed Microwave Service licensees prior to operation in 3.75-4.25 GHz band.
- (6) The authorized station must be in compliance with environmental requirement set forth in Section 1.1310 of the Commission's Rules.
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (9) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.