

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WM2XET

(Call Sign)

0885-EX-CN-2021

(File Number)

NAME Microsoft Corporation

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(j) of the Commission's Rules

Station Locations

- (1) MOBILE: Redmond, WA, within 5 km, centered around NL 47-38-22; WL 122-07-44
- (2) MOBILE: Carnation WA, within 5 km, centered around NL 47-41-14; WL 121-56-23
- (3) MOBILE: Essex NY, within 5 km, centered around NL 44-18-42; WL 73-22-24
- (4) MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-52-28; WL 88-33-06
- (5) MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-54-16; WL 88-27-06
- (6) MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 42-00-13; WL 88-32-29
- (7) MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-54-16; WL 88-27-06
- (8) MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-52-28; WL 88-33-06
- (9) MOBILE: Aurora, NY, within 5 km, centered around NL 42-52-26; WL 77-01-43
- (10) MOBILE: Camano Island, WA, within 5 km, centered around NL 48-04-46; WL 122-23-23
- (11) MOBILE: Everest, ND, within 5 km, centered around NL 46-52-42; WL 97-13-54
- (12) MOBILE: Framingham, WA, within 5 km, centered around NL 47-02-07; WL 117-02-54

This authorization effective January 03, 2022 and
will expire 3:00 A.M. EST January 01, 2024

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

MOBILE: Redmond, WA, within 5 km, centered around NL 47-38-22; WL 122-07-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

MOBILE: Carnation WA, within 5 km, centered around NL 47-41-14; WL 121-56-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	

Frequency Information

MOBILE: Carnation WA, within 5 km, centered around NL 47-41-14; WL 121-56-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
614-698 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	
902-928 MHz	MO	500KK1W 500KQ1W	61 mW (ERP)	

MOBILE: Essex NY, within 5 km, centered around NL 44-18-42; WL 73-22-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	

Frequency Information

MOBILE: Essex NY, within 5 km, centered around NL 44-18-42; WL 73-22-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
614-698 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-52-28; WL 88-33-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	

Frequency Information

MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-52-28; WL 88-33-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
476-608 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-54-16; WL 88-27-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	

Frequency Information

MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-54-16; WL 88-27-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 42-00-13; WL 88-32-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	

Frequency Information

MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 42-00-13; WL 88-32-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-54-16; WL 88-27-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

Frequency Information

MOBILE: Vicinity of Burlington, IL, within 5 km, centered around NL 41-52-28; WL 88-33-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

MOBILE: Aurora, NY, within 5 km, centered around NL 42-52-26; WL 77-01-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	30.5 mW (ERP)	

Frequency Information

MOBILE: Aurora, NY, within 5 km, centered around NL 42-52-26; WL 77-01-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
76-88 MHz	MO	100KK1W 100KQ1W	30.5 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	30.5 mW (ERP)	
476-608 MHz	MO	100KQ1W 100KK1W	30.5 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	30.5 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

MOBILE: Camano Island, WA, within 5 km, centered around NL 48-04-46; WL 122-23-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	

Frequency Information

MOBILE: Camano Island, WA, within 5 km, centered around NL 48-04-46; WL 122-23-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KK1W 100KQ1W 100KQ1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

MOBILE: Everest, ND, within 5 km, centered around NL 46-52-42; WL 97-13-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W	63 mW (ERP)	

Frequency Information

MOBILE: Everest, ND, within 5 km, centered around NL 46-52-42; WL 97-13-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
180-216 MHz	MO	100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KQ1W 100KK1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (ERP)	

MOBILE: Framingham, WA, within 5 km, centered around NL 47-02-07; WL 117-02-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
76-88 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
180-216 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
476-608 MHz	MO	100KQ1W	63 mW (ERP)	

Frequency Information

MOBILE: Framingham, WA, within 5 km, centered around NL 47-02-07; WL 117-02-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
476-608 MHz	MO	100KK1W	63 mW (ERP)	
614-698 MHz	MO	100KK1W 100KQ1W	63 mW (ERP)	
902-928 MHz	MO	500KQ1W 500KK1W	61 mW (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 local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/resources/frequency-coordination/> to find the appropriate coordinator.
- (3) 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (6) Prior to commencing any operations in the frequencies below, the licensee must obtain consent from the following within 20 miles of the contours of the testing area:
Location & Monitoring Service licensees (902-928 MHz)
- (7) Secure consents from the Upper Microwave Flexible Use Service licensees around the proposed venues prior to accessing to 614-698 MHz band.