

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WR9XXB

(Call Sign)

0359-EX-ST-2021

(File Number)

NAME United States Cellular Corporation

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

United States Cellular Corporation seeks experimental special temporary authority to conduct field friendly user trials at select Janesville, WI and Des Moines, IA locations using its licensed UMFUS

Station Locations

- (1) Janesville (ROCK), WI - NL 42-42-17; WL 88-58-40
- (2) Janesville (ROCK), WI - NL 42-41-15; WL 89-02-13
- (3) Janesville (ROCK), WI - NL 42-42-26; WL 88-59-19
- (4) Des Moines (DES MOINES), IA - NL 41-38-10; WL 93-37-57
- (5) Des Moines (DES MOINES), IA - NL 41-37-15; WL 93-39-20
- (6) Des Moines (DES MOINES), IA - NL 41-38-34; WL 93-31-20
- (7) Des Moines (DES MOINES), IA - NL 41-30-47; WL 93-38-57
- (8) Des Moines (DES MOINES), IA - NL 41-36-56; WL 93-40-52
- (9) Des Moines (DES MOINES), IA - NL 41-35-17; WL 93-39-55
- (10) Des Moines (DES MOINES), IA - NL 41-30-50; WL 93-36-17
- (11) Des Moines (DES MOINES), IA - NL 41-36-58; WL 93-41-01
- (12) Des Moines (DES MOINES), IA - NL 41-36-48; WL 93-39-32
- (13) Des Moines (DES MOINES), IA - NL 41-35-12; WL 93-38-40
- (14) Des Moines (DES MOINES), IA - NL 41-31-06; WL 93-38-06
- (15) Des Moines (DES MOINES), IA - NL 41-38-10; WL 93-39-36
- (16) Des Moines (DES MOINES), IA - NL 41-36-24; WL 93-33-29
- (17) Des Moines (DES MOINES), IA - NL 41-35-20; WL 93-41-56

This authorization effective April 13, 2021 and
will expire 3:00 A.M. EST October 07, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Janesville (ROCK), WI - NL 42-42-17; WL 88-58-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27925-28350 MHz	FX	100MG7D	126 W (ERP)	0.001 %
38700-39000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Janesville (ROCK), WI - NL 42-41-15; WL 89-02-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27925-28350 MHz	FX	100MG7D	126 W (ERP)	0.001 %
38700-39000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Janesville (ROCK), WI - NL 42-42-26; WL 88-59-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27925-28350 MHz	FX	100MG7D	126 W (ERP)	0.001 %
38700-39000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Frequency Information

Des Moines (DES MOINES), IA - NL 41-38-10; WL 93-37-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Des Moines (DES MOINES), IA - NL 41-37-15; WL 93-39-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Des Moines (DES MOINES), IA - NL 41-38-34; WL 93-31-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Frequency Information

Des Moines (DES MOINES), IA - NL 41-30-47; WL 93-38-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Des Moines (DES MOINES), IA - NL 41-36-56; WL 93-40-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Des Moines (DES MOINES), IA - NL 41-35-17; WL 93-39-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Frequency Information

Des Moines (DES MOINES), IA - NL 41-30-50; WL 93-36-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Des Moines (DES MOINES), IA - NL 41-36-58; WL 93-41-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Des Moines (DES MOINES), IA - NL 41-36-48; WL 93-39-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Frequency Information

Des Moines (DES MOINES), IA - NL 41-35-12; WL 93-38-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Des Moines (DES MOINES), IA - NL 41-31-06; WL 93-38-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Des Moines (DES MOINES), IA - NL 41-38-10; WL 93-39-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Frequency Information

Des Moines (DES MOINES), IA - NL 41-36-24; WL 93-33-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

Des Moines (DES MOINES), IA - NL 41-35-20; WL 93-41-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-27925 MHz	FX	100MG7D	126 W (ERP)	0.001 %
39600-40000 MHz	FX	100MG7D	200 W (ERP)	0.03 %

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) 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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) United States Cellular Corporation must successfully secure consents from the Upper Microwave Flexible Use Service licensees in each proposed area prior to conducting experimental operations.
- (5) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.

Special Conditions:

- (6) Unwanted emission mean power from operation in the 37.0-40.5 GHz frequency band shall be limited to -43 dB (W/MHz) and -23 dB(W/GHz) within the 36-37 GHz frequency band and is recommended to be less than -30 dB(W/GHz), in accordance with ITU Resolution 243 (WRC-19).