

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

EXPERIMENTAL  
(Nature of Service)

XT    FX  
(Class of Station)

WI2XXG  
(Call Sign)

0094-EX-CM-2021  
(File Number)

NAME 3DB Communication 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(h) of the Commission's Rules

Station Locations

- (1) Maple Park (KANE), IL - NL 41-56-03; WL 88-29-01
- (2) Maple Park (KANE), IL - NL 41-50-36; WL 88-32-17
- (3) Maple Park (KANE), IL - NL 41-56-03; WL 88-29-01
- (4) Maple Park (KANE), IL - NL 41-50-36; WL 88-32-17
- (5) Johnsonburg (WARREN), NJ - NL 40-58-15; WL 74-51-43

Frequency Information

Maple Park (KANE), IL - NL 41-56-03; WL 88-29-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4650 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
5060-5450 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
5730-5800 kHz	FX	48K0G1D	20 kW (ERP)	0.00005 %

This authorization effective June 30, 2021 and will expire 3:00 A.M. EST September 12, 2022

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Maple Park (KANE), IL - NL 41-56-03; WL 88-29-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6765-7000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
7450-8100 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
8147.5 kHz	FX	95K0G1D	20 kW (ERP)	0.00005 %
9040-9400 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
10150-11175 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
11400-11600 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
12100-12230 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
13410-13570 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
13870-14000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
14350-14990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Maple Park (KANE), IL - NL 41-56-03; WL 88-29-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15800-16360 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
17445 kHz	FX	70K0G1D	20 kW (ERP)	0.00005 %
18168-18780 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
19020-19680 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
19800-19990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
20010-21000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
21897 kHz	FX	54K0G1D	20 kW (ERP)	0.00005 %
22855-23000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
23000-23200 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
23350-24890 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Maple Park (KANE), IL - NL 41-50-36; WL 88-32-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4650 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
5060-5450 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
5730-5800 kHz	FX	48K0G1D	20 kW (ERP)	0.00005 %
6765-7000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
7450-8100 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
8147.5 kHz	FX	95K0G1D	20 kW (ERP)	0.00005 %
9040-9400 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
10150-11175 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
11400-11600 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
12100-12230 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Maple Park (KANE), IL - NL 41-50-36; WL 88-32-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13410-13570 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
13870-14000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
14350-14990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
15800-16360 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
17445 kHz	FX	70K0G1D	20 kW (ERP)	0.00005 %
18168-18780 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
19020-19680 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
19800-19990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
20010-21000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
21897 kHz	FX	54K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Maple Park (KANE), IL - NL 41-50-36; WL 88-32-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
22855-23000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
23000-23200 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
23350-24890 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

Maple Park (KANE), IL - NL 41-56-03; WL 88-29-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4650 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
5060-5450 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
5730-5800 kHz	FX	48K0G1D	20 kW (ERP)	0.00005 %
6765-7000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
7450-8100 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
8147.5 kHz	FX	95K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Maple Park (KANE), IL - NL 41-56-03; WL 88-29-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9040-9400 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
10150-11175 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
11400-11600 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
12100-12230 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
13410-13570 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
13870-14000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
14350-14990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
15800-16360 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
17445 kHz	FX	70K0G1D	20 kW (ERP)	0.00005 %
18168-18780 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Maple Park (KANE), IL - NL 41-56-03; WL 88-29-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
19020-19680 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
19800-19990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
20010-21000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
21897 kHz	FX	54K0G1D	20 kW (ERP)	0.00005 %
22855-23000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
23000-23200 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
23350-24890 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

Maple Park (KANE), IL - NL 41-50-36; WL 88-32-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4650 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
5060-5450 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %



## Frequency Information

Maple Park (KANE), IL - NL 41-50-36; WL 88-32-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5730-5800 kHz	FX	48K0G1D	20 kW (ERP)	0.00005 %
6765-7000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
7450-8100 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
8147.5 kHz	FX	95K0G1D	20 kW (ERP)	0.00005 %
9040-9400 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
10150-11175 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
11400-11600 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
12100-12230 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
13410-13570 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
13870-14000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Maple Park (KANE), IL - NL 41-50-36; WL 88-32-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14350-14990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
15800-16360 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
17445 kHz	FX	70K0G1D	20 kW (ERP)	0.00005 %
18168-18780 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
19020-19680 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
19800-19990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
20010-21000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
21897 kHz	FX	54K0G1D	20 kW (ERP)	0.00005 %
22855-23000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
23000-23200 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Maple Park (KANE), IL - NL 41-50-36; WL 88-32-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
23350-24890 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

Johnsonburg (WARREN), NJ - NL 40-58-15; WL 74-51-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4650 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
5060-5450 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
5730-5800 kHz	FX	48K0G1D	20 kW (ERP)	0.00005 %
6765-7000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
7450-8100 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
8147.5 kHz	FX	95K0G1D	20 kW (ERP)	0.00005 %
9040-9400 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
10150-11175 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Johnsonburg (WARREN), NJ - NL 40-58-15; WL 74-51-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11400-11600 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
12100-12230 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
13410-13570 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
13870-14000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
14350-14990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
15800-16360 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
17445 kHz	FX	70K0G1D	20 kW (ERP)	0.00005 %
18168-18780 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
19020-19680 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
19800-19990 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

## Frequency Information

Johnsonburg (WARREN), NJ - NL 40-58-15; WL 74-51-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20010-21000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
21897 kHz	FX	54K0G1D	20 kW (ERP)	0.00005 %
22855-23000 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
23000-23200 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %
23350-24890 kHz	FX	96K0G1D	20 kW (ERP)	0.00005 %

## Special Conditions:

- (1) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (2) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) The designated point of contact to terminate the systems if interference occurs is Sam Lucente 630-557-2221 and Peter F Skae 914-262-7195.
- (6) Experimental use is secondary to, and must not interfere with Flight Test operations.
- (7) Licensee must coordinate with other users as necessary to minimize interference.
- (8) Operation is subject to prior coordination with AFTRCC Frequency Advisory Committee, [www.aftrcc.org](http://www.aftrcc.org)
- (9) Non-approved equipment must be labeled.
- (10) Non-approved equipment must be retrieved.

**Special Conditions:**

- (11) Market trial is limited timing of operation. The market trial will not be renewed or extended.
- (12) This operation is not permitted for stock trading.
- (13) This operation is for experimental purposes only, provision of services is not permitted. Widely divergent and unrelated experiments must not be conducted under this license.
- (14) Operation is not permitted using the frequency band 21924-22000 kHz.
- (15) Operation is subject to shut down immediately if it causes interference to the International Broadcast Stations and FAA operations.
- (16) This authorization SUPERSEDES the previous issued authorization with the same call sign and file number: amended the condition.