

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

EXPERIMENTAL

(Nature of Service)

WG2XZH

(Call Sign)

XT FX

(Class of Station)

0643-EX-CR-2019

(File Number)

NAME Parallel Wireless, 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(i) of the Commission's Rules

Station Locations

- (1) Nashua (HILLSBOROUGH), NH - NL 42-42-30; WL 71-27-18
- (2) Nashua (HILLSBOROUGH), NH - NL 42-42-30; WL 71-27-18

Frequency Information

Nashua (HILLSBOROUGH), NH - NL 42-42-30; WL 71-27-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
470-698 MHz	FX	228MF9W	0.5 W (Output Power)	
704-716 MHz	FX	12M0F9W	0.5 W (Output Power)	
734-746 MHz	FX	12M0F9W	0.5 W (Output Power)	
746-756 MHz	FX	10M0F9W	0.5 W (Output Power)	

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Nashua (HILLSBOROUGH), NH - NL 42-42-30; WL 71-27-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
777-787 MHz	FX	10M0F9W	0.5 W (Output Power)	
824-849 MHz	FX	25M0F9W	0.5 W (Output Power)	
869-894 MHz	FX	25M0F9W	0.5 W (Output Power)	
1710-1755 MHz	FX	45M0F9W	0.5 W (Output Power)	
1747.5 MHz	FX	75M0F9W	0.5 W (Output Power)	
1842.5 MHz	FX	75M0F9W	0.5 W (Output Power)	
1850-1915 MHz	FX	65M0F9W	0.5 W (Output Power)	
1920-1980 MHz	FX	60M0F9W	0.5 W (Output Power)	
1930-1995 MHz	FX	65M0F9W	0.5 W (Output Power)	
2110-2170 MHz	FX	60M0F9W	0.5 W (Output Power)	

Frequency Information

Nashua (HILLSBOROUGH), NH - NL 42-42-30; WL 71-27-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2155 MHz	FX	45M0F9W	0.5 W (Output Power)	
2441.75 MHz	FX	83M5F9W	0.5 W (Output Power)	
5437.5 MHz	FX	575MF9W	0.5 W (Output Power)	
3.65-3.7 GHz	FX	50M0F9W	0.5 W (Output Power)	
4.94-4.99 GHz	FX	50M0F9W	0.5 W (Output Power)	

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5437.5 MHz	FX	575MF9W	0.5 W (Output Power)	
3.65-3.7 GHz	FX	50M0F9W	0.5 W (Output Power)	
4.94-4.99 GHz	FX	50M0F9W	0.5 W (Output Power)	

Special Conditions:

- (1) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (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) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (4) At any one time, Parallel's "intelligent base stations" will be located at no more than five sites in, and within a four-kilometer radius of, Parallel's offices in Nashua, New Hampshire. Over time, Parallel expects to test 50 base stations. Any given experiment would use no more than five such base stations. In addition:1, Parallel expects to test up to 15 portable devices in any given experiment.
- (5) Parallel has analyzed information in the FCC's license databases and states that the proposed operation would not interfere or create a significant potential for harmful interference with any public safety operations in the 700 MHz band.

Special Conditions:

- (6) Operation of the experiment will not be used in mission-critical operations or in the delivery of live transmissions in duties to protect life, property, or safety. Operations will be confined to a one kilometer radius of each base station in use, for a maximum overall four- kilometer radius at any given time.
- (7) Parallel has provided an overall project manager and in case of interference issues, "stopbuzzer" contact for these experiments: Anne-Marie Dinius, Intellectual Property Counsel, Parallel Wireless Inc., 603-589-9937 x 224; adinius@parallelwireless.com.
- (8) This license is revised to remove the Band 14 frequencies 758-768/788-798 MHz band. Firsnet anticipates the NPSBN to be operational during the timeframe of this license with Band 14 covering both test locations as well as across the border into Massachusetts.