

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WG2XZH

(Call Sign)

0503-EX-RR-2015

(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, 2016 and
will expire 3:00 A.M. EST January 01, 2018

**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 (+/-)
758-768 MHz	FX	10M0F9W	0.5 W (Output Power)	
777-787 MHz	FX	10M0F9W	0.5 W (Output Power)	
788-798 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)	
1710-1785 MHz	FX	75M0F9W	0.5 W (Output Power)	
1710-1755 MHz	FX	45M0F9W	0.5 W (Output Power)	
1805-1880 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)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1995 MHz	FX	65M0F9W	0.5 W (Output Power)	
2110-2170 MHz	FX	60M0F9W	0.5 W (Output Power)	
2110-2155 MHz	FX	45M0F9W	0.5 W (Output Power)	
2.4-2.4835 GHz	FX	83M5F9W	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)	
5.15-5.725 GHz	FX	575MF9W	0.5 W (Output Power)	

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470-698 MHz	FX	228MF9W	0.5 W (Output Power)	
704-716 MHz	FX	12M0F9W	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 (+/-)
734-746 MHz	FX	12M0F9W	0.5 W (Output Power)	
746-756 MHz	FX	10M0F9W	0.5 W (Output Power)	
758-768 MHz	FX	10M0F9W	0.5 W (Output Power)	
777-787 MHz	FX	10M0F9W	0.5 W (Output Power)	
788-798 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)	
1710-1785 MHz	FX	75M0F9W	0.5 W (Output Power)	
1710-1755 MHz	FX	45M0F9W	0.5 W (Output Power)	
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Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
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)	
2110-2155 MHz	FX	45M0F9W	0.5 W (Output Power)	
2.4-2.4835 GHz	FX	83M5F9W 83M5F9W	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)	
5.15-5.725 GHz	FX	575MF9W	0.5 W (Output Power)	

Special Conditions:

- (1) 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.

Special Conditions:

- (2) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (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) 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 requests authority from the FCC to operate over, among other bands, the 758-768/788-798 MHz band, which is currently licensed on a nationwide basis to FirstNet.
- (6) Operation under the requested experimental license will begin when the Commission grants the request and will continue for no longer than two years.
- (7) 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.
- (8) 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.
- (9) 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.
- (10) Parallel understands that an experimental license only permits shared use of the subject radio frequencies and that it may have to coordinate with other entities licensed for experimental purposes. Parallel further understands that a separate concurrence from FirstNet will be required for any renewal of this license.
- (11) All experimental operations by Parallel will be secondary, meaning that they must not cause interference to narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet. Narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet, have no obligation to mitigate any interference that such primary operations may present to the Parallel experimental operations.

Special Conditions:

- (12) FirstNet has not yet deployed in the geographic area covered by this application. Parallel understands that if, during the term of this license, FirstNet or its assigns or lessees, plans to deploy in this area, Parallel may have to reduce the coverage or power levels of its experimental transmissions or cease them entirely.