

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WJ2XYH

(Call Sign)

0018-EX-CN-2019

(File Number)

NAME TrellisWare Technologies

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) MOBILE: Borrego Springs, CA, within 45 km, centered around NL 33-15-23; WL 116-22-30

Frequency Information

MOBILE: Borrego Springs, CA, within 45 km, centered around NL 33-15-23; WL 116-22-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1391-1395 MHz	MO	50K0G1D 1M20G1D 4M00G1D	2 W (ERP)	
1670-2309 MHz	MO	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D 20M0W7D 40M0G1D	2 W (ERP)	

This authorization effective February 22, 2019 and
will expire 3:00 A.M. EST March 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Borrego Springs, CA, within 45 km, centered around NL 33-15-23; WL 116-22-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-2309 MHz	MO	40M0W7D	2 W (ERP)	
1780-1850 MHz	MO	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D 20M0W7D 40M0G1D 40M0W7D	40 W (ERP)	
1990-2110 MHz	MO	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D 20M0W7D 40M0G1D 40M0W7D	40 W (ERP)	
2180-2305 MHz	MO	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D 20M0W7D 40M0G1D 40M0W7D	40 W (ERP)	
2396-2600 MHz	MO	50K0G1D	2 W (ERP)	

Frequency Information

MOBILE: Borrego Springs, CA, within 45 km, centered around NL 33-15-23; WL 116-22-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2396-2600 MHz	MO	1M20G1D 4M00G1D 10M0G1D 20M0G1D 20M0W7D 40M0G1D 40M0W7D	2 W (ERP)	
2495-2600 MHz	MO	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D 20M0W7D 40M0G1D 40M0W7D	40 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (4) Operation is NOT PERMITTED using the frequency band 2483.5-2495 MHz band.
- (5) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (6) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (7) Stop buzzer, Michael Smith at (858) 888-5298.
- (8) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.

Special Conditions:

- (9) Licensee must obtain consents from the Advance Wireless Service licensees prior to accessing to 1695-2200 MHz band.
- (10) Licensee must obtain consents from the Educational Broadband Service and the Broadband Radio Service licensees prior to operation in 2495-2600 MHz band.
- (11) Licensee must coordinate with the local Society of Broadcast Engineers frequency coordinator and the Fixed Microwave Service licensees prior to operation in 2450-2500 MHz band.
- (12) Licensee must coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in 2025-2110 MHz band.
- (13) Prior to commencing any operations, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
 - 1390-1392 MHz Band Licensees
 - 1392-1395 MHz/1432-1435 MHz Band licensees
 - 1670-1675 MHz Band licensee (Crown Castle International,) and the lessee (Ligado Networks)
 - Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
 - WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)