

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

EXPERIMENTAL
(Nature of Service)

XT MO
(Class of Station)

WJ2XJL
(Call Sign)

0447-EX-CR-2026
(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: San Diego, CA, within 45 km, centered around NL 33-00-53; WL 117-05-35

Frequency Information

MOBILE: San Diego, CA, within 45 km, centered around NL 33-00-53; WL 117-05-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1393 MHz	MO	1M20G1D 4M00G1D 500KG1D 2M40G1D 50K0G1D	2 W (ERP)	
1670-2309 MHz	MO	50K0G1D 1M20G1D 4M00G1D 10M0G1D 20M0G1D 20M0W7D 40M0G1D	2 W (ERP)	

This authorization effective May 01, 2026 and
will expire 3:00 A.M. ET May 01, 2028

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

MOBILE: San Diego, CA, within 45 km, centered around NL 33-00-53; WL 117-05-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-2309 MHz	MO	40M0W7D	2 W (ERP)	
		500KG1D		
		2M40G1D		
		5M00G1D		
		6M20G1D		
		7M20G1D		
		12M5G1D		
1780-1850 MHz	MO	50K0G1D	40 W (ERP)	
		1M20G1D		
		4M00G1D		
		10M0G1D		
		20M0G1D		
		20M0W7D		
		40M0G1D		
		40M0W7D		
		500KG1D		
		2M40G1D		
		5M00G1D		
		6M20G1D		
		7M20G1D		
		12M5G1D		
1990-2110 MHz	MO	50K0G1D	40 W (ERP)	
		1M20G1D		
		4M00G1D		
		10M0G1D		
		20M0G1D		
		20M0W7D		
		40M0G1D		
		40M0W7D		
		500KG1D		
		2M40G1D		

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1990-2110 MHz	MO	5M00G1D	40 W (ERP)	
		6M20G1D		
		7M20G1D		
		12M5G1D		
2180-2305 MHz	MO	50K0G1D	40 W (ERP)	
		1M20G1D		
		4M00G1D		
		10M0G1D		
		20M0G1D		
		20M0W7D		
		40M0G1D		
		40M0W7D		
		500KG1D		
		2M40G1D		
		5M00G1D		
		6M20G1D		
		7M20G1D		
		12M5G1D		
2396-2600 MHz	MO	50K0G1D	2 W (ERP)	
		1M20G1D		
		4M00G1D		
		10M0G1D		
		20M0G1D		
		20M0W7D		
		40M0G1D		
		40M0W7D		
		500KG1D		
		2M40G1D		
		5M00G1D		
		6M20G1D		
		7M20G1D		

Frequency Information

MOBILE: San Diego, CA, within 45 km, centered around NL 33-00-53; WL 117-05-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2396-2600 MHz	MO	12M5G1D	2 W (ERP)	
2495-2600 MHz	MO	50K0G1D	40 W (ERP)	
		1M20G1D		
		4M00G1D		
		10M0G1D		
		20M0G1D		
		20M0W7D		
		40M0G1D		
		40M0W7D		
		500KG1D		
		2M40G1D		
		5M00G1D		
		6M20G1D		
		7M20G1D		
		12M5G1D		

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) Operation is NOT PERMITTED using any AFTRCC frequency bands 1435-1525 MHz, 2310-2320 MHz and 2360-2390 MHz.
- (3) The applicant must obtain consents of the following within 50 miles of the test area prior to operation:
 - 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 licensees (2305-2320 MHz/2345-2360 MHz)
- (4) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (5) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.

Special Conditions:

- (6) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (7) The stop buzzer contact for this project is Mr. Penner at (858) 753-1658.
- (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.
- (9) Operation is NOT PERMITTED using the frequency band 2483.5-2495 MHz.
- (10) All operations are on a non-interference basis to authorized federal users and long term use of the requested frequency bands may not be possible. Trellisware Technologies should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee will be subject to immediate shut down.
- (11) All operations in the 1390-1395 MHz band shall ensure the unwanted emissions power does not exceed -60 dBW in the 27 MHz of the 1400-1427 MHz band for mobile stations as specified in Footnote NG338A.
- (12) The 1390-1400 MHz and 2290-2300 MHz bands shall not be used for airborne operations.
- (13) All mobile operations in the 2200-2290 MHz band are limited to line-of-sight operations only.
- (14) Trellisware Technologies shall not introduce high-density mobile systems in the 2025-2110 MHz or 2200-2290 MHz frequency bands.
- (15) Trellisware Technologies shall pre-coordinate use of this system in the band 2200-2290 MHz with agencies owning earth stations listed in Section 8.3.15 of the NTIA Manual, whenever the system will be operated from a terrestrial platform within 125 km of such stations or an airborne platform within 880 km of such stations. Trellisware Technologies should also be aware of the difficulty of coordinating operations with existing users in the 2200-2290 MHz band when the necessary bandwidth exceeds 5 MHz.
- (16) Trellisware Technologies may not advertise or display these devices at trade shows or exhibitions unless they are accompanied by a conspicuous notice: 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 from the Federal Communication Commission. Obtaining authorization from the Federal Communication Commission may not be possible as a portion of the operating frequencies are allocated to the federal government on an exclusive basis.
- (17) The applicant must obtain consents from the Educational Broadband Service and Broadband Radio Service licensees in proposed area prior to operation in the frequency range from 2495 MHz to 2600 MHz.
- (18) The applicant must obtain consents from the Advanced Wireless Service licensees in the proposed areas prior to accessing to the frequency ranges from 1695 MHz to 2200 MHz.
- (19) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator in the proposed area prior to operation in 1990-2199 MHz and 2450-2500 MHz bands,

Special Conditions:

- (20) Licensee must coordinate with the Fixed Microwave Service licensees prior to operation in 1990-2199 MHz and 2450-2500 MHz band.