

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WL2XYL

(Call Sign)

0585-EX-CN-2021

(File Number)

NAME Encina Communications Corporation

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(j) of the Commission's Rules

Station Locations

(1) Marina (MONTEREY), CA - NL 36-40-13; WL 121-46-25

Frequency Information

Marina (MONTEREY), CA - NL 36-40-13; WL 121-46-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5925-6425 MHz	FX	30M0D7W	16 W (ERP)	0.001 %

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) Encina Communications Corporation shall coordinate with Fixed Microwave Service licensees in the proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 5925-6425 MHz band.

This authorization effective July 29, 2021 and
will expire 3:00 A.M. EST February 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) Prior to commencing any operations at power of 16W ERP (42 dBm ERP & 44.2dBm (26.3W, 14.2 dBW) EIRP), which exceeds the limit of 2.43W ERP (33.85 dBm ERP & 36 dBm (4 watt, 6 dBW) EIRP), in the 5925-6425 MHz (U-NII-5) frequency band, experimental licensee must notify licensees of Intelsat License LLC (Ms. Susan HCrاندall, Phone Number: 703-559-7848, E-Mail: susan.crandall@intelsat.com) and SES Americom, Inc.(Ms. Petra A Vorwig, Phone Number: 202-478-7143, E-Mail:petra.vorwig@ses.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (5) For operation in the 5925-6425 MHz (U-NII-5) frequency band, the maximum output power from the outdoor standard power access points (AFC Controlled) and fixed client device must not exceed 1 watt (30 dBm) into a 6 dBi antenna for a total of 36 dBm (4 watt) EIRP. In addition, the maximum power spectral density shall not exceed 23 dBm (200mW) in any 1-megahertz band.
- (6) For operation in the 5925-6425 MHz (U-NII-5) frequency band, the maximum EIRP from an outdoor Standard-Power Access Point (AFC Controlled) and fixed client device must not exceed 21 dBm (125mW) at any elevation angle of more than 30 degrees above the horizon to protect satellite receivers.
- (7) For client device (Client Connected to outdoor standard power access point), operating in the 5925-6425 MHz (U-NII-5) frequency band, the maximum power spectral density must not exceed 17 dBm (0.05 W) EIRP in any 1-megahertz band. In addition, the maximum EIRP over the frequency band of operation must not exceed 30 dBm (1 watt).
- (8) For an indoor Low-Power access point operating in the 5925-6425 MHz (U-NII-5) frequency band, the maximum power spectral density must not exceed 5 dBm (0.0032 W) EIRP in any 1-megahertz band. In addition, the maximum EIRP over the frequency band of operation must not exceed 30 dBm (1 watt). Access points operating under this section must employ a permanently attached integrated antenna.
- (9) For a subordinate device operating under the control of an indoor access point in the 5925-6425 MHz (U-NII-5) frequency band, the maximum power spectral density must not exceed 5 dBm (0.0032 W) EIRP in any 1-megahertz band, and the maximum EIRP over the frequency band of operation must not exceed 30 dBm (1 watt). Access points operating under this section must employ a permanently attached integrated antenna.
- (10) For client device (Client Connected to indoor Low-Power access point), operating under the control of an indoor access point in the 5925-6425 MHz (U-NII-5) frequency band, the maximum power spectral density must not exceed -1 dBm (0.00079 W) EIRP in any 1-megahertz band, and the maximum EIRP over the frequency band of operation must not exceed 24 dBm (250mW).