

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

EXPERIMENTAL

(Nature of Service)

WJ2XFV

(Call Sign)

XD FX

(Class of Station)

0504-EX-CR-2018

(File Number)

NAME Qualcomm Technologies, 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(j) of the Commission's Rules

Station Locations

(1) San Diego (SAN DIEGO), CA - NL 32-54-14; WL 117-11-47

Frequency Information

San Diego (SAN DIEGO), CA - NL 32-54-14; WL 117-11-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12.2-12.7 GHz	FX	100HN0N	36 mW (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective January 01, 2019 and
will expire 3:00 A.M. EST January 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) Operations in the 12.2-12.7 GHz band was obtained based on the written consent from DirecTV/AT&T, EchoStar and DISH Network with the following conditions:
 - (a) Maximum transmit E.I.R.P. is -14 dBW.
 - (b) The fixed transmitter location is in latitude 32 54 13.2; longitude 117 11 47.1.
 - (c) Antenna pointing is limited to elevation angle at 2.5 degrees and azimuth 172.8 degrees.
 - (d) Transmitter height (above ground level) 60 feet.
 - (e) Waveform type is limited to continuous wave (CW).
 - (f) Maximum period of operation is 6 months from the date the grant is issue.
 - (g) Link operation activity (typically) from Monday to Friday, 8:00 am to 6 pm PST with a duration of 20 minutes repeated 6 times daily.
 - (i) Frequency of operation consistent with Direct Broadcast Satellite (DBS) guard bands.
 - (j) Antenna pattern as describe in File No. 0772-EX-ST-2017, exhibit document.
- (5) Stop buzzer contacts is Brian Jones at phone (858) 658-4751 or (858) 837-2104 (24 hours), email: brjones@qualcomm.com