

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

EXPERIMENTAL

(Nature of Service)

WJ2XWR

(Call Sign)

XD MO

(Class of Station)

0946-EX-CN-2018

(File Number)

NAME Intel 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) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09
- (2) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09
- (3) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09
- (4) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09
- (5) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09
- (6) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09
- (7) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09
- (8) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09
- (9) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09
- (10) MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency Information

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
617-652 MHz	MO		1798.9 mW (ERP)	
		10M0W7W		
		20M0W7W		
		40M0W7W		
		60M0W7W		
		80M0W7W		

This authorization effective January 03, 2019 and
will expire 3:00 A.M. EST January 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
617-652 MHz	MO	100MW7W	1798.9 mW (ERP)	

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2496-2690 MHz	MO	20M0W7W	609.5 mW (ERP)	
		40M0W7W		
		60M0W7W		
		80M0W7W		
		100MW7W		

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3800 MHz	MO	20M0W7W	609.5 mW (ERP)	
		40M0W7W		
		60M0W7W		
		80M0W7W		
		100MW7W		

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3800 MHz	MO	20M0W7W	192.8 W (ERP)	
		40M0W7W		

Frequency Information

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3800 MHz	MO	60M0W7W 80M0W7W 100MW7W	192.8 W (ERP)	

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2496-2690 MHz	MO	20M0W7W 40M0W7W 60M0W7W 80M0W7W 100MW7W	192.8 W (ERP)	

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4940 MHz	MO	20M0W7W 40M0W7W 60M0W7W 80M0W9W 100MW7W	609.5 mW (ERP)	

Frequency Information

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4940 MHz	MO	20M0W7W 40M0W7W 60M0W7W 80M0W7W 100MW7W	192.8 W (ERP)	

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
26.5-29.5 GHz	MO	100MW7W 200MW7W 300MW7W 400MW7W	609.5 W (ERP)	

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
26.5-29.5 GHz	MO	100MW7W 200MW7W 300MW7W 400MW7W	966 W (ERP)	

Frequency Information

MOBILE: San Diego, CA, within 0.1 km, centered around NL 32-56-23; WL 117-06-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37-40 GHz	MO		609.5 W (ERP)	
		100MW7W		
		200MW7W		
		300MW7W		
		400MW7W		

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.
- (4) Operations in the 27.5-29.5 GHz band are limited to the following power (ERP) level:

Frequency band	Emission	power (ERP)
27.5-29.5 GHz	100MW7W	80 W
27.5-29.5 GHz	200MW7W	160 W
27.5-29.5 GHz	300MW7W	240 W
27.5-29.5 GHz	400MW7W	315 W
- (5) Licensee must avoid pointing the transmitting antenna main beam gain within 10 degrees of any point on the geostationary orbital arc while transmitting signals in the 27.5-29.5 GHz band.
- (6) Secure consents from the Educational Broadband Service and the Broadband Radio Service licensees prior to operation in 2496-2690 MHz range.
- (7) Maintain operation separation from the grandfathered earth stations as defined in Part 90, Subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz band.
- (8) Consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed geographic area prior to operation in this band.
- (9) Coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in 617-652 MHz band.
- (10) Coordination with the affected Fixed Microwave Service licensees prior to operation in 3300-3800 MHz, 26.5-29.5 GHz, 37-40 GHz bands.
- (11) Licensee shall ensure that the transmitting fixed station antenna(s) main beam gain tip down when possible and avoid pointing above the horizon to protect satellite stations.