

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WG9XPT

(Call Sign)

XT MO

(Class of Station)

0053-EX-ST-2013

(File Number)

NAME Intel Corp.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

To test prototype devices.

Station Locations

- (1) MOBILE: Santa Clara, CA, within 100 km, centered around NL 37-23-18; WL 121-57-45
- (2) MOBILE: Hillsboro, OR, within 100 km, centered around NL 45-31-26; WL 122-56-34
- (3) MOBILE: Chicago, IL, within 100 km, centered around NL 41-50-26; WL 87-40-46
- (4) MOBILE: Redmond, WA, within 100 km, centered around NL 47-40-27; WL 122-07-13
- (5) MOBILE: Folsom, CA, within 100 km, centered around NL 38-40-19; WL 121-09-28
- (6) MOBILE: Austin, TX, within 100 km, centered around NL 30-16-00; WL 97-44-34
- (7) MOBILE: Dupont, WA, within 100 km, centered around NL 47-05-57; WL 122-38-15
- (8) MOBILE: Chandler, AZ, within 100 km, centered around NL 33-18-41; WL 111-55-57
- (9) MOBILE: Columbia, NC, within 100 km, centered around NL 34-00-02; WL 81-02-05

Frequency Information

MOBILE: Santa Clara, CA, within 100 km, centered around NL 37-23-18; WL 121-57-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00G1D	25 mW (ERP)	

This authorization effective May 23, 2013 and
will expire 3:00 A.M. EST November 22, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**

Frequency Information

MOBILE: Santa Clara, CA, within 100 km, centered around NL 37-23-18; WL 121-57-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	2M00G1D	25 mW (ERP)	
2412-2462 MHz	MO	20M0G7D	245 mW (ERP)	
2422-2452 MHz	MO	40M0G7D	245 mW (ERP)	
5150-5250 MHz	MO	20M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	40M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	80M0G7D	191 mW (ERP)	
5250-5350 MHz	MO	20M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	40M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	80M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	20M0G7D	380 mW (ERP)	

Frequency Information

MOBILE: Santa Clara, CA, within 100 km, centered around NL 37-23-18; WL 121-57-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5470-5725 MHz	MO	40M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	80M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	20M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	40M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	80M0G7D	380 mW (ERP)	

MOBILE: Hillsboro, OR, within 100 km, centered around NL 45-31-26; WL 122-56-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00G1D	25 mW (ERP)	
2400-2483.5 MHz	MO	2M00G1D	25 mW (ERP)	
2412-2462 MHz	MO	20M0G7D	245 mW (ERP)	
2422-2452 MHz	MO	40M0G7D	245 mW (ERP)	

Frequency Information

MOBILE: Hillsboro, OR, within 100 km, centered around NL 45-31-26; WL 122-56-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5150-5250 MHz	MO	20M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	40M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	80M0G7D	191 mW (ERP)	
5250-5350 MHz	MO	20M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	40M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	80M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	20M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	40M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	80M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	20M0G7D	380 mW (ERP)	

Frequency Information

MOBILE: Hillsboro, OR, within 100 km, centered around NL 45-31-26; WL 122-56-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5725-5850 MHz	MO	40M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	80M0G7D	380 mW (ERP)	

MOBILE: Chicago, IL, within 100 km, centered around NL 41-50-26; WL 87-40-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00G1D	25 mW (ERP)	
2400-2483.5 MHz	MO	2M00G1D	25 mW (ERP)	
2412-2462 MHz	MO	20M0G7D	245 mW (ERP)	
2422-2452 MHz	MO	40M0G7D	245 mW (ERP)	
5150-5250 MHz	MO	20M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	40M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	80M0G7D	191 mW (ERP)	

Frequency Information

MOBILE: Chicago, IL, within 100 km, centered around NL 41-50-26; WL 87-40-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5250-5350 MHz	MO	20M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	40M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	80M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	20M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	40M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	80M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	20M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	40M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	80M0G7D	380 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 100 km, centered around NL 47-40-27; WL 122-07-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00G1D	25 mW (ERP)	
2400-2483.5 MHz	MO	2M00G1D	25 mW (ERP)	
2412-2462 MHz	MO	20M0G7D	245 mW (ERP)	
2422-2452 MHz	MO	40M0G7D	245 mW (ERP)	
5150-5250 MHz	MO	20M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	40M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	80M0G7D	191 mW (ERP)	
5250-5350 MHz	MO	20M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	40M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	80M0G7D	380 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 100 km, centered around NL 47-40-27; WL 122-07-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5470-5725 MHz	MO	20M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	40M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	80M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	20M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	40M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	80M0G7D	380 mW (ERP)	

MOBILE: Folsom, CA, within 100 km, centered around NL 38-40-19; WL 121-09-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00G1D	25 mW (ERP)	
2400-2483.5 MHz	MO	2M00G1D	25 mW (ERP)	
2412-2462 MHz	MO	20M0G7D	245 mW (ERP)	

Frequency Information

MOBILE: Folsom, CA, within 100 km, centered around NL 38-40-19; WL 121-09-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2422-2452 MHz	MO	40M0G7D	245 mW (ERP)	
5150-5250 MHz	MO	20M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	40M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	80M0G7D	191 mW (ERP)	
5250-5350 MHz	MO	20M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	40M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	80M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	20M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	40M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	80M0G7D	380 mW (ERP)	

Frequency Information

MOBILE: Folsom, CA, within 100 km, centered around NL 38-40-19; WL 121-09-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5725-5850 MHz	MO	20M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	40M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	80M0G7D	380 mW (ERP)	

MOBILE: Austin, TX, within 100 km, centered around NL 30-16-00; WL 97-44-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00G1D	25 mW (ERP)	
2400-2483.5 MHz	MO	2M00G1D	25 mW (ERP)	
2412-2462 MHz	MO	20M0G7D	245 mW (ERP)	
2422-2452 MHz	MO	40M0G7D	245 mW (ERP)	
5150-5250 MHz	MO	40M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	80M0G7D	191 mW (ERP)	

Frequency Information

MOBILE: Austin, TX, within 100 km, centered around NL 30-16-00; WL 97-44-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5150-5250 MHz	MO	20M0G7D	191 mW (ERP)	
5250-5350 MHz	MO	40M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	80M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	20M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	40M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	80M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	20M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	20M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	40M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	80M0G7D	380 mW (ERP)	

Frequency Information

MOBILE: Dupont, WA, within 100 km, centered around NL 47-05-57; WL 122-38-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00G1D	25 mW (ERP)	
2400-2483.5 MHz	MO	2M00G1D	25 mW (ERP)	
2412-2462 MHz	MO	20M0G7D	245 mW (ERP)	
2422-2452 MHz	MO	40M0G7D	245 mW (ERP)	
5150-5250 MHz	MO	20M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	40M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	80M0G7D	191 mW (ERP)	
5250-5350 MHz	MO	20M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	40M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	80M0G7D	380 mW (ERP)	

Frequency Information

MOBILE: Dupont, WA, within 100 km, centered around NL 47-05-57; WL 122-38-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5470-5725 MHz	MO	20M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	40M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	80M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	20M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	40M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	80M0G7D	380 mW (ERP)	

MOBILE: Chandler, AZ, within 100 km, centered around NL 33-18-41; WL 111-55-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00G1D	25 mW (ERP)	
2400-2483.5 MHz	MO	2M00G1D	25 mW (ERP)	
2412-2462 MHz	MO	20M0G7D	245 mW (ERP)	

Frequency Information

MOBILE: Chandler, AZ, within 100 km, centered around NL 33-18-41; WL 111-55-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2422-2452 MHz	MO	40M0G7D	245 mW (ERP)	
5150-5250 MHz	MO	20M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	40M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	80M0G7D	191 mW (ERP)	
5250-5350 MHz	MO	20M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	40M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	80M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	20M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	40M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	80M0G7D	380 mW (ERP)	

Frequency Information

MOBILE: Chandler, AZ, within 100 km, centered around NL 33-18-41; WL 111-55-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5725-5850 MHz	MO	20M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	40M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	80M0G7D	380 mW (ERP)	

MOBILE: Columbia, NC, within 100 km, centered around NL 34-00-02; WL 81-02-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00G1D	25 mW (ERP)	
2400-2483.5 MHz	MO	2M00G1D	25 mW (ERP)	
2412-2462 MHz	MO	20M0G7D	245 mW (ERP)	
2422-2452 MHz	MO	40M0G7D	245 mW (ERP)	
5150-5250 MHz	MO	20M0G7D	191 mW (ERP)	
5150-5250 MHz	MO	40M0G7D	191 mW (ERP)	

Frequency Information

MOBILE: Columbia, NC, within 100 km, centered around NL 34-00-02; WL 81-02-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5150-5250 MHz	MO	80M0G7D	191 mW (ERP)	
5250-5350 MHz	MO	20M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	40M0G7D	380 mW (ERP)	
5250-5350 MHz	MO	80M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	20M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	40M0G7D	380 mW (ERP)	
5470-5725 MHz	MO	80M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	20M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	40M0G7D	380 mW (ERP)	
5725-5850 MHz	MO	80M0G7D	380 mW (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) All of the experimental devices will be under control of Intel Corp. and they will be retrieved by Intel Corp. from the participants upon completion of the experiment.
- (3) This authorization is issued for the express purpose of conducting experimental operations described in the related application. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (4) Under this authorization, the total number of experimental devices shall not exceed 2000.
- (5) Intel Corp. will be responsible for ensuring that the devices are used in authorized locations and in a manner authorized.
- (6) Intel Corp. employees will be allowed to test the devices solely in their own homes, and they will be required to sign a certification acknowledging an understanding of these use restrictions.
- (7) Intel Corp. will ensure that the devices are used in households with no potential for electromagnetic interference to other household devices, particularly to other devices in adjoining households.
- (8) All of the experimental devices will be under control of Intel Corp. and Intel Corp. will maintain and manage a process or system that tracks the assignment of each device, its purpose of use, and will ensure that devices are recoverable from end users. Within 60 days upon completion of experiment or cancellation of license Intel will recover all devices and provide a report to the FCC to this effect.
- (9) Intel Corp. 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.
- (10) Each unit will be labeled with the following legend: "For evaluation only; not FCC-approved for sale, marketing or other distribution to the general public. Operation is subject to the conditions that this product not causes harmful interference to other services and that this product accepts harmful interference."
- (11) Stop buzzer point of contact to cease operation is Mr. Robert Paxman at (503) 712-8077 or robert.paxman@intel.com
- (12) Operation in 5150-5250 MHz is restricted for indoor use only.
- (13) Operation in bands 5150-5350 MHz, and 5470-5825 MHz must comply with the FCC CFR 47, Part 15.407.
- (14) Coordinate with the Society of Broadcast Engineers (SBE) frequency coordinator and with the Fixed Microwave licensees prior to accessing to 2400-2483.5 MHz.
- (15) Intel Corp. must be made aware that the 5180 – 5250 MHz band is presently an Aeronautical Radionavigation band and there may be problems obtaining license for this service in the future.
- (16) If an extension of the current experiment is sought, licensee is required to file a PROGRESS REPORT after 5 months from the date of grant. This progress report shall be filed on-line through <https://apps.fcc.gov/els/AddAttachmentsEntry.do> or mailed to Federal Communications Commission; Experimental Licensing Branch, MS 1300E1; 445 12 Street, S.W.; Washington, DC 20554.