

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

EXPERIMENTAL

(Nature of Service)

WG9XGA

(Call Sign)

XT MO

(Class of Station)

0677-EX-ST-2012

(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 various frequency bands for new products.

Station Locations

- (1) MOBILE: Santa Clara, CA, within 100 km, centered around NL 37-23-18; WL 121-57-45
- (2) MOBILE: Folsom, CA, within 100 km, centered around NL 38-40-19; WL 121-09-28
- (3) MOBILE: Portland, OR, within 100 km, centered around NL 45-32-30; WL 122-57-39
- (4) MOBILE: Austin, TX, within 100 km, centered around NL 30-16-00; WL 97-44-34
- (5) MOBILE: DuPont, WA, within 100 km, centered around NL 47-05-57; WL 122-38-15
- (6) MOBILE: Chandler, AZ, within 100 km, centered around NL 33-18-41; WL 111-55-57
- (7) MOBILE: Redmond, WA, within 100 km, centered around NL 47-40-27; WL 122-07-13
- (8) MOBILE: Columbia, NC, within 100 km, centered around NL 34-00-02; WL 81-02-05
- (9) MOBILE: Reno, NV, within 100 km, centered around NL 39-31-46; WL 119-48-46
- (10) MOBILE: Champaign, IL, within 100 km, centered around NL 40-06-59; WL 88-14-35
- (11) MOBILE: Hudson, MA, within 100 km, centered around NL 42-23-30; WL 71-34-00

This authorization effective February 04, 2013 and
will expire 3:00 A.M. EST August 02, 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 (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 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 (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 mW (ERP)	

Frequency Information

MOBILE: Portland, OR, within 100 km, centered around NL 45-32-30; WL 122-57-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 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 (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 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 (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 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 (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 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 (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 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 (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 mW (ERP)	

Frequency Information

MOBILE: Reno, NV, within 100 km, centered around NL 39-31-46; WL 119-48-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 mW (ERP)	

Frequency Information

MOBILE: Champaign, IL, within 100 km, centered around NL 40-06-59; WL 88-14-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 mW (ERP)	

Frequency Information

MOBILE: Hudson, MA, within 100 km, centered around NL 42-23-30; WL 71-34-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.56 MHz	MO	500KG1D		
824.2-848.8 MHz	MO	200KGXW	891.11 mW (ERP)	
826.4-846.6 MHz	MO	5M00F9W	112.27 mW (ERP)	
1710-1755 MHz	MO	5M00F9W	281.99 mW (ERP)	
1850.2-1909.8 MHz	MO	200KG7W	1121.7 mW (ERP)	
1852.4-1907.6 MHz	MO	5M00F9W	281.99 mW (ERP)	
2402-2480 MHz	MO	1M00G1D	7 mW (ERP)	
2412-2462 MHz	MO	20M0G7D 20M0G7D	79 mW (ERP)	
5180-5825 MHz	MO	20M0G7D	79 mW (ERP)	

Special Conditions:

- (1) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.

Special Conditions:

- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (5) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (6) 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.
- (7) 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.
- (8) Under this authorization, at any given time the total number of experimental devices shall not exceed 3000.
- (9) Operation in 5150-5250 MHz is restricted for indoor use only.
- (10) Operation in 13.56 MHz will be in accordance with section 15.225 of the Commissions' Rules.
- (11) The Intel Corporation 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.
- (12) The stop buzzer for the Intel Corporation will be Mr. Robert Paxman at 503-712-8077 or Robert.Paxman@intel.com.
- (13) Operation in bands 5150-5350 MHz, and 5470-5825 MHz must comply with the FCC CFR 47, Part 15.407.
- (14) In the 5575 – 5650 MHz band, the Intel Corporation must not come within 10 miles of the follow locations:
 - a. Phoenix, AZ, 33-25-14N 112-09-46W
 - b. McCook, IL, 41-47-51N 087-51-31W
 - c. Crestwood, IL, 41-39-05N 087-43-47W
 - d. Boston, MA, 42-09-29N 070-56-02W
 - e. Charlotte, N.C. 35-21-39N 080-51-42W
 - f. Raleigh Durham, N.C. 36-00-07N 078-41-53W
- (15) Coordinate with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org, prior to operate on bands 2402-2480 MHz and 2412-2462 MHz.
- (16) Coordinate with the Society of Broadcast Engineers (SBE) frequency coordinator and with the Fixed Microwave licensees prior to accessing to 2402-2480 MHz and 2412-2462 MHz.

Special Conditions:

- (17) 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.