

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

EXPERIMENTAL

(Nature of Service)

WJ9XHO

(Call Sign)

XT FX MO

(Class of Station)

1748-EX-ST-2016

(File Number)

NAME Samsung Electronics America, Inc.

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:

Market Trial of experimental systems compliant with Part 5, Subpart H, rule 5.602.

Station Locations

- (1) Brockton (PLYMOUTH), MA - NL 42-04-53; WL 71-01-05; MOBILE: , within 5 km, centered around NL 42-04-53; WL 71-01-05
- (2) West Roxbury (SUFFOLK), MA - NL 42-16-30; WL 71-08-21; MOBILE: , within 5 km, centered around NL 42-16-30; WL 71-08-21
- (3) Natick (MIDDLESEX), MA - NL 42-16-59; WL 71-20-52; MOBILE: , within 5 km, centered around NL 42-16-59; WL 71-20-52
- (4) WORCESTER (WORCESTER), MA - NL 42-15-56; WL 71-48-18; MOBILE: , within 5 km, centered around NL 42-15-56; WL 71-48-18
- (5) Waltham (MIDDLESEX), MA - NL 42-22-38; WL 71-14-20; MOBILE: , within 5 km, centered around NL 42-22-38; WL 71-14-20

Frequency Information

Brockton (PLYMOUTH), MA - NL 42-04-53; WL 71-01-05; MOBILE: , within 5 km, centered around NL 42-04-53; WL 71-01-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.525-28.325 GHz	FX	800MG7W 800MW7W	630.95 W (ERP)	

This authorization effective January 15, 2017 and
will expire 3:00 A.M. EST July 15, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Brockton (PLYMOUTH), MA - NL 42-04-53; WL 71-01-05; MOBILE: , within 5 km, centered around NL 42-04-53; WL 71-01-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.525-28.325 GHz	FX	800MW7W 800MK1W	630.95 W (ERP)	
27.525-28.325 GHz	MO	800MG7W 800MW7W 800MW7W 800MK1W	19.95 W (ERP)	

West Roxbury (SUFFOLK), MA - NL 42-16-30; WL 71-08-21; MOBILE: , within 5 km, centered around NL 42-16-30; WL 71-08-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.525-28.325 GHz	FX	800MG7W 800MW7W 800MW7W 800MK1W	630.95 W (ERP)	
27.525-28.325 GHz	MO	800MG7W 800MW7N 800MW7W 800MK1W	19.95 W (ERP)	

Natick (MIDDLESEX), MA - NL 42-16-59; WL 71-20-52; MOBILE: , within 5 km, centered around NL 42-16-59; WL 71-20-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.525-28.325 GHz	FX	800MG7W 800MW7W	630.95 W (ERP)	

Frequency Information

Natick (MIDDLESEX), MA - NL 42-16-59; WL 71-20-52; MOBILE: , within 5 km, centered around NL 42-16-59; WL 71-20-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.525-28.325 GHz	FX	800MW7W 800MK1W	630.95 W (ERP)	
27.525-28.325 GHz	MO	800MG7W 800MW7W 800MW7W 800MK1W	19.95 W (ERP)	

WORCESTER (WORCESTER), MA - NL 42-15-56; WL 71-48-18; MOBILE: , within 5 km, centered around NL 42-15-56; WL 71-48-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.525-28.325 GHz	FX	800MG7W 800MW7W 800MW7W 800MK1W	630.95 W (ERP)	
27.525-28.325 GHz	MO	800MG7W 800MW7W 800MW7W 800MK1W	19.95 W (ERP)	

Waltham (MIDDLESEX), MA - NL 42-22-38; WL 71-14-20; MOBILE: , within 5 km, centered around NL 42-22-38; WL 71-14-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.525-28.325 GHz	FX	800MG7W 800MW7W	630.95 W (ERP)	

Frequency Information

Waltham (MIDDLESEX), MA - NL 42-22-38; WL 71-14-20; MOBILE: , within 5 km, centered around NL 42-22-38; WL 71-14-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.525-28.325 GHz	FX	800MW7W 800MK1W	630.95 W (ERP)	
27.525-28.325 GHz	MO	800MG7W 800MW7W 800MW7W 800MK1W	19.95 W (ERP)	

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (3) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (4) 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.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) Prior to the start of any operations in the 27.535 - 28.325 GHz band, experimental licensee must notify the National Spectrum Managers Association (NSMA) frequency coordinator by e-mail. This notice must include the name and contact information of the stop buzzer personnel. It must also include the testing parameters, day and times of each testing.

NSMA contact information can be found in the website:

http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave.

- (7) Experimental fixed stations pointing in the South-West, South or South-East direction are authorized with a maximum antenna elevation of 0 degrees or below from the horizon.
- (8) Experimental station shall use the minimum power level necessary to close the communications link to minimize potential interference to geostationary satellite networks.