

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WJ9XHO

(Call Sign)

1256-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:

Demonstration of 5G systems to various customers.

Station Locations

- (1) Basking Ridge (SOMERSET), NJ - NL 40-43-30; WL 74-32-00; MOBILE: , within 2 km
- (2) Bridgewater (SOMERSET), NJ - NL 40-34-27; WL 74-40-03; MOBILE: , within 5 km, centered around NL 40-34-27; WL 74-40-03
- (3) Bernardsville (SOMERSET), NJ - NL 40-43-13; WL 74-33-46; MOBILE: , within 5 km, centered around NL 40-43-13; WL 74-33-46

Frequency Information

Basking Ridge (SOMERSET), NJ - NL 40-43-30; WL 74-32-00; MOBILE: , within 2 km

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

This authorization effective October 01, 2016 and
will expire 3:00 A.M. EST April 01, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Basking Ridge (SOMERSET), NJ - NL 40-43-30; WL 74-32-00; MOBILE: , within 2 km

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

Bridgewater (SOMERSET), NJ - NL 40-34-27; WL 74-40-03; MOBILE: , within 5 km, centered around NL 40-34-27; WL 74-40

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)	

Bernardsville (SOMERSET), NJ - NL 40-43-13; WL 74-33-46; MOBILE: , within 5 km, centered around NL 40-43-13; WL 74-3

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.525-28.325 GHz	FX	800MG7W 800MW7W 800GW7W 800MK1W	630.95 W (ERP)	

Frequency Information

Bernardsville (SOMERSET), NJ - NL 40-43-13; WL 74-33-46; MOBILE: , within 5 km, centered around NL 40-43-13; WL 74-3

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

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (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) 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.

- (5) 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.
- (6) Experimental station shall use the minimum power level necessary to close the communications link to minimize potential interference to geostationary satellite networks.