

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WQ9XIK

(Call Sign)

0483-EX-ST-2020

(File Number)

NAME Ericsson

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 Develop proof of concepts in 5G especially in AR - VR and Industrial IoT.

Station Locations

- (1) Santa Clara (SANTA CLARA), CA - NL 37-23-01; WL 121-58-33; MOBILE: , within 0.06 km, centered around NL 37-23-01; WL 121-58-33

Frequency Information

Santa Clara (SANTA CLARA), CA - NL 37-23-01; WL 121-58-33; MOBILE: , within 0.06 km, centered around NL 37-23-01; W

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2200 MHz	FX	3M00W9W	100 mW (ERP)	
3550-3700 MHz	FX	100MW9W	100 mW (ERP)	
27500-28350 MHz	FX	400MW9W	1 W (ERP)	

This authorization effective March 27, 2020 and
will expire 3:00 A.M. EST September 28, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Santa Clara (SANTA CLARA), CA - NL 37-23-01; WL 121-58-33; MOBILE: , within 0.06 km, centered around NL 37-23-01; W

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-40000 MHz	FX	400MW9W	1 W (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) 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) Ericsson shall secure consents from the Advance Wireless Service licensees prior to operation in the frequency ranges from 2110 MHz to 2200 MHz.
- (4) Ericsson shall 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.
- (5) Ericsson shall 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 areas prior to operation in this band.
- (6) Ericsson shall coordinate with the affected Fixed Microwave Service licensees prior to operation in 27500-28350 MHz and 37000-40000 MHz bands
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) Licensee must avoid pointing the main beam gain transmitting antenna within 10 degrees of any point on the geostationary orbital arc while transmitting signals in the 27.5-28.35 GHz band.
- (9) Licensee shall ensure that the transmitting fixed station antenna(s) tip down when possible and avoid pointing above the horizon to protect satellite stations.
- (10) The fixed station antenna(s) main beam elevation angle is at (Zero degree) or below the horizon (below Zero degrees) while transmitting signals in the 27.5-28.35 GHz band.
- (11) Licensee should be aware that other stations are licensed on 27.5-28.35 GHz band and if any interference occurs, the experimental licensee of this authorization will be subject to immediate shut down.
- (12) Stop Buzzer: Matthew Hussey
Phone: 202-824-0114
Email: matthew.hussey@ericsson.com

Special Conditions:

- (13) Ericsson should be aware that the requested location falls within the Exclusion Zone defined in the NTIA Fast Track Report (NTIA Technical Report TR-15-517: 3.5 GHz Exclusion Zone Analyses and Methodology). NTIA's concurrence is based upon Ericsson's understanding that their operations in the 3550-3650 MHz are susceptible to interference from federal operations and they agree to accept any interference should it occur as well as operating on a Non-Interference Basis to any federal systems in the requested area.