

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

EXPERIMENTAL

(Nature of Service)

WO9XTD

(Call Sign)

XT MO

(Class of Station)

1008-EX-ST-2019

(File Number)

NAME Robert Bosch LLC

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:

Testing and development of new telematics product in 24 states. See attached narrative.

Station Locations

- (1) MOBILE: The following states: AL, AR, AZ, CA, CO, FL, GA, IA, IL, IN, KS, KY, LA, MN, MS, NE, NC, OH, SC, TX, VA, WI, WA, WY, centered around NL 41-39-16; WL 93-45-03

Frequency Information

MOBILE: The following states: AL, AR, AZ, CA, CO, FL, GA, IA, IL, IN, KS, KY, LA, MN, MS, NE, NC, OH, SC, TX, VA, WI, WA, WY, centered around NL 41-39-16; WL 93-45-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
704-716 MHz	MO	10M0D7W 10M0G7D 10M0G7W 10M0W7D	230 mW (ERP)	
824-849 MHz	MO	10M0D7W 10M0G7D	1 W (ERP)	

This authorization effective August 01, 2019 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	10M0G7W 10M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
1710-1755 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	200 mW (ERP)	
1850-1910 MHz	MO	5M00F9W 5M00G7W 20M0D7W 20M0G7D 20M0G7W 20M0W7D	1 W (ERP)	
2400-2483.5 MHz	MO	20M0D1D	150 mW (ERP)	
2400-2483.5 MHz	MO	20M0D1D	63 mW (ERP)	
5180-5320 MHz	MO	20M0D1D	125 mW (ERP)	
5500-5600 MHz	MO	20M0D1D	125 mW (ERP)	

Frequency Information

MOBILE: The following states: AL, AR, AZ, CA, CO, FL, GA, IA, IL, IN, KS, KY, LA, MN, MS, NE, NC, OH, SC, TX, VA, WI, WA, WY, centered around NL 41-39-16; WL 93-45-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5825 MHz	MO	20M0D1D	125 mW (ERP)	

Special Conditions:

- (1) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) 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) Coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in 2400-2483.5 MHz band.
- (5) Coordinate with the affected Fixed Microwave Service licensees prior to operation in 2400-2483.5 MHz band.
- (6) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (7) The licensee must obtain consent from the following within 50 miles of the contours of the testing area:
700 MHz Lower Band "B" block licensees (704-710 MHz/734-740 MHz)
700 MHz Lower Band "C" block licensees (710-716 MHz/740-746 MHz)
Cellular licensees (824-849 MHz/869-894 MHz)
Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
- (8) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered
- (9) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (10) All of the experimental devices be retrieved by Robert Bosch LLC from the participants upon completion of the operation.
- (11) The stop buzzer is B.N Prakash at +91 97422 58416, Prakash.Bn@in.bosch.com
- (12) Robert Bosch, LLC shall exclude the 5630 - 5825 MHz frequency band from operations when operating within 20 km of the following coordinates: 37° 52' 52" N, 75° 29' 11" W (Wallops Island, VA).

Special Conditions:

- (13) Robert Bosch, LLC coordinate with the National Science Foundation POC, Dan "Mert" Mertely, nrao-rfi@nrao.edu, phone: (575) 835-7128, prior to operating within 50km of the following locations:
 - a. Fort Davis, TX (30° 38' 06" N, 103° 56' 41" W)
 - b. Kitt Peak, AZ (31° 57' 22" N, 111° 36' 44" W)
 - c. Owens Valley, CA (37° 13' 53" N, 118° 16' 37" W)
 - d. Brewster, WA (48° 07' 52" N, 119° 40' 59" W)
- (14) Robert Bosch, LLC must notch out 5600-5650 MHz to protect FAA Weather radars.
- (15) Robert Bosch, LLC must notch out 5500-5825 MHz at the following locations:
 - a. Within 100 Km of Eglin AFB FL (30-34-58N; 86-31-42W)
 - b. Within 100 Km of Cape San Blas FL (29-40-33N; 85-20-49W)
- (16) This license SUPERSEDES the previously issued license with the same call sign and file number: to add special condition (15).