

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

EXPERIMENTAL

(Nature of Service)

WO9XKD

(Call Sign)

XT MO

(Class of Station)

0683-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 for applications in different types of vehicles.
See attached narrative.

Station Locations

- (1) MOBILE: Lakewood, NY. Jamestown Engine Plant, within 100 km, centered around NL 42-04-56; WL 79-21-38
- (2) MOBILE: Whitakers, NC. Cummins Rocky Mount Engine Plant, within 100 km, centered around NL 36-05-33; WL 77-43-59
- (3) MOBILE: Shoreview, MN. within 100 km of vehicle manufacturing facility, within 100 km, centered around NL 45-04-44; WL 93-08-49

Frequency Information

MOBILE: Lakewood, NY. Jamestown Engine Plant, within 100 km, centered around NL 42-04-56; WL 79-21-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	10M0D7W 10M0G7D 10M0G7W 10M0W7D	200 mW (ERP)	

This authorization effective May 15, 2019 and
will expire 3:00 A.M. EST November 16, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Lakewood, NY. Jamestown Engine Plant, within 100 km, centered around NL 42-04-56; WL 79-21-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
1710-1755 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
1850-1910 MHz	MO	5M00F9W 5M00G7W 20M0D7W 20M0G7D 20M0G7W 20M0W7D	1 W (ERP)	
2400-2483.5 MHz	MO	20M0D1D 2M00F1D	63 mW (ERP)	
5180-5320 MHz	MO	20M0D1D	75 mW (ERP)	
5500-5825 MHz	MO	20M0D1D	200 mW (ERP)	

Frequency Information

MOBILE: Whitakers, NC. Cummins Rocky Mount Engine Plant, within 100 km, centered around NL 36-05-33; WL 77-43-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	10M0D7W 10M0G7D 10M0G7W 10M0W7D	200 mW (ERP)	
824-849 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
1710-1755 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
1850-1910 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
2400-2483.5 MHz	MO	20M0D1D 20M0F1D	135 mW (ERP)	

Frequency Information

MOBILE: Whitakers, NC. Cummins Rocky Mount Engine Plant, within 100 km, centered around NL 36-05-33; WL 77-43-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5180-5320 MHz	MO	20M0D1D	75 mW (ERP)	
5500-5600 MHz	MO	20M0D1D	75 mW (ERP)	
5650-5825 MHz	MO	20M0D1D	75 mW (ERP)	

MOBILE: Shoreview, MN. within 100 km of vehicle manufacturing facility, within 100 km, centered around NL 45-04-44; WL 93-08-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	10M0D7W 10M0G7D 10M0G7W 10M0W7D	200 mW (ERP)	
824-849 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	260 mW (ERP)	
1710-1755 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	1 W (ERP)	

Frequency Information

MOBILE: Shoreview, MN. within 100 km of vehicle manufacturing facility, within 100 km, centered around NL 45-04-44; WL 93-08-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1910 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
2400-2483.5 MHz	MO	20M0D1D 20M0F1D	135 mW (ERP)	
5180-5320 MHz	MO	20M0D1D	75 mW (ERP)	
5500-5600 MHz	MO	20M0D1D	75 mW (ERP)	
5650-5825 MHz	MO	20M0D1D	75 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) 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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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.

Special Conditions:

- (7) The licensee must obtain consent from the following within 50 miles of the contours of the testing area:
 - 700 MHz Lower Band "A" block licensees (698-704 MHz/728-734 MHz)
 - 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) Robert Bosch, LLC. must notch out the 5600 – 5650 MHz band at the Whitaker, NC and Shoreview MN locations, in order to protect weather radars in the area.