

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

EXPERIMENTAL

(Nature of Service)

WN9XYA

(Call Sign)

XT MO

(Class of Station)

0031-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. See attached narrative.

Station Locations

- (1) MOBILE: Farmington Hills, MI, within 20 km, centered around NL 42-29-27; WL 83-25-33
- (2) MOBILE: Urbandale, IA, within 20 km, centered around NL 41-38-34; WL 93-46-23

Frequency Information

MOBILE: Farmington Hills, MI, within 20 km, centered around NL 42-29-27; WL 83-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	10M0D7W 10M0G7D 10M0G7W 10M0W7D	200 mW (ERP)	
729-746 MHz	MO	10M0D7W 10M0G7D	200 mW (ERP)	

This authorization effective February 28, 2019 and
will expire 3:00 A.M. EST August 29, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Farmington Hills, MI, within 20 km, centered around NL 42-29-27; WL 83-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
729-746 MHz	MO	10M0G7W 10M0W7D	200 mW (ERP)	
824-849 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
869-894 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
1710-1755 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
1930-1990 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	

Frequency Information

MOBILE: Farmington Hills, MI, within 20 km, centered around NL 42-29-27; WL 83-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2155 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
2400-2483.5 MHz	MO	20M0D1D 2M00F1D	63 mW (ERP)	
2500-2570 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
2620-2690 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
5180-5320 MHz	MO	20M0D1D	25 mW (ERP)	
5500-5610 MHz	MO	20M0D1D	25 mW (ERP)	
5620-5825 MHz	MO	20M0D1D	25 mW (ERP)	

Frequency Information

MOBILE: Urbandale, IA, within 20 km, centered around NL 41-38-34; WL 93-46-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	10M0D7W 10M0G7D 10M0G7W 10M0W7D	200 mW (ERP)	
729-746 MHz	MO	10M0D7W 10M0G7D 10M0G7W 10M0W7D	200 mW (ERP)	
824-849 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
869-894 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
1710-1755 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	

Frequency Information

MOBILE: Urbandale, IA, within 20 km, centered around NL 41-38-34; WL 93-46-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
2110-2155 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
2400-2483.5 MHz	MO	20M0D1D 2M00F1D	63 mW (ERP)	
2500-2570 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
2620-2690 MHz	MO	20M0D7W 20M0G7D 20M0W7D	200 mW (ERP)	
5180-5320 MHz	MO	20M0D1D	25 mW (ERP)	

Frequency Information

MOBILE: Urbandale, IA, within 20 km, centered around NL 41-38-34; WL 93-46-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5500-5610 MHz	MO	20M0D1D	25 mW (ERP)	
5620-5825 MHz	MO	20M0D1D	25 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) 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
- (5) Obtain consents from the Educational Broadband Service and the Broadband Radio Service licensees prior to operation in 2500-2570 MHz and 2620-2690 MHz bands.
- (6) Coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in 2450-2483.5 MHz band.
- (7) Coordinate with the affected Fixed Microwave Service licensees prior to operation in 2450-2483.5 MHz band.
- (8) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (9) Operation is not permitted in 1850-1910 MHz and 5610-5620 MHz bands.
- (10) The licensee must obtain consent from the following within 50 miles of the contours of the testing area:
 - 700 MHz Lower Band licensees (698-746 MHz)
 - Cellular licensees (824-849 MHz/869-894 MHz)
 - Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)