

Date: May 20, 2020

Office of Engineering and Technology
Laboratory Division
Equipment Authorization Branch
Federal Communications Commission Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Application for Certification of Transmitter with FCC ID: **AZ492FT7129**

Dear Sir/Madam,

Motorola Solutions, Inc (8000 West Sunrise Boulevard, Fort Lauderdale, Florida) herein submits application for Certification of the subject transmitter.

This transmitter is intended for use in a Mobile Radio environment with capabilities for clear and coded communications with a variable transmit power within the following frequency ranges in Table 1a and 1b:

Table 1a (vehicle)

Product Name	Model Numbers	Frequency Range	RF Power	FCC Rules Part
APX6500/Li APX4500 APX2500 APX1500	M25QSS9PW1BN M22QSS9PW1BN M24QSS9PW1BN M36QSS9PW1BN	LMR UHF R1 380 – 406.0 MHz 406.1 - 470 MHz	1.0 – 40.0 W; Max=48.0W 1.0 W Max (Pt80)	22, 74, 90 80
		802.11b,g,n: 2412 – 2462 MHz	802.11b : 39.8 mW (Max) 802.11g : 15.8 mW (Max) 802.11n : 12.58 mW (Max)	15C
		802.11a,n,ac: 5170 – 5835 MHz	802.11a : 15.84 mW (Max) 802.11n (20MHz): 15.84 mW (Max) 802.11n (40MHz): 15.84 mW (Max) 802.11ac : 15.84 mW (Max)	15E
		BT: 2402 - 2480 MHz	11.22mW (Max)	15C
		BT LE: 2402 – 2480 MHz	6.3mW (Max)	15C

Table 1b (motorcycle)(order option (W/G138))

Product Name	Model Numbers	Frequency Range	RF Power	ISED RSS
APX2500	M24QSS9PW1BN	LMR UHF R1 380 – 406.0 MHz 406.1 - 470 MHz	1.0 – 18.0 W (rated), 18W (max)	22, 74, 90
		802.11b,g,n: 2412 – 2462 MHz	802.11b : 39.8 mW (Max) 802.11g : 15.8 mW (Max) 802.11n : 12.58 mW (Max)	15C
		802.11a,n,ac: 5170 – 5835 MHz	802.11a : 15.84 mW (Max) 802.11n (20MHz): 15.84 mW (Max) 802.11n (40MHz): 15.84 mW (Max) 802.11ac : 15.84 mW (Max)	15E
		BT: 2402 - 2480 MHz	11.22mW (Max)	15C
		BT LE: 2402 – 2480 MHz	6.3mW (Max)	15C

It is capable of operating as a system in tandem with MOBEXCOM DVRS (Table 2) and Sierra LTE/VML750 Modems (Table 3) for vehicle use only and not for motorcycle

Table 2

Model No.	Product Description	IC
MOBEXCOM DVRS VHF	MOBEXCOM Digital Vehicular Repeater DVR VHF (136-174 MHz)	LO6-DVRSVHF
MOBEXCOM DVRS UHF	MOBEXCOM Digital Vehicular Repeater DVR UHF (380-512 MHz)	LO6-DVRSUHF
MOBEXCOM DVRS 700	MOBEXCOM Digital Vehicular Repeater DVR 700 (764-776 MHz; 794-806 MHz)	LO6-DVRS700
MOBEXCOM DVRS 800	MOBEXCOM Digital Vehicular Repeater DVR 800 (806-824 MHz; 851-869 MHz)	LO6-DVRS800

Table 3

Product Name	Product Description	IC
MP70	Sierra Wireless High Performance Vehicle Router	N7NMC7455 TK4WLE900VX
GX450	Sierra Wireless Mobile Gateway	N7NMC7355 N7NEC4501
MG90	Sierra Wireless High Performance Multi-Network Vehicle Router	T7V1316 N7NEM75S TK4WLE900VX
RV55	Sierra Wireless Rugged LTE-A Pro Router	N7NEM75S N6C-SDPAC
VML750	VML750 LTE Vehicle Modem	AZ492FT7058
	Contains: Module LM63S1	2AAGMLM63S1
	Contains: Module MC7354	N7NMC7355

We are requesting certification under Part(s) of the Commission's Rules listed above to allow operation of this equipment. The transmitter is intended for work related occupational use only under Part 90 of the FCC rules.

The subject transmitter complies with Section 90.203 and 80.203 (b) of the Rules in that the operator cannot directly program transmit frequencies using the unit's normally accessible external controls. The transmitter also complies to 80.203(n) as it meets all performance requirements listed in IEC62238..

A complete Certification application is enclosed. If you require any additional information, please contact me at (954) 723-4707.

Sincerely,



Deanna Zakharia
Regulatory Compliance Manager
E-mail: Deanna.zakharia@motorolasolutions.com