

Response to FAA/FCC for the Use of Frequency Band 1350-1390 MHz

Correspondence Reference Number: 20519

File Number: 0213-EX-RR-2013

Call Sign: WF2XVO

Please prior coordinate the use of the frequency band 1350-1390 MHz with the Northwest Mountain (ANM) and Southwest (ASW) FAA Regional Offices. Please obtain NGT (Non-Government Temporary) numbers from the FAA Regional Offices at the completion of the coordination and report them in your response to this correspondence.

Northwest Mountain (ANM) – [NG T130252](#) (FAA Supporting Document Supplied)

Southwest (ASW) – [NG T 130255](#) (FAA Supporting Document Supplied)

Please report the parameters below in your coordination with the FAA Regional Offices:

- Peak envelope power (PEP): [\(1\) Vehicle – 1 W](#); [\(2\) Backpack – 1 W](#)
- Type of antenna: [\(1\) Vehicle – Omni-directional Whip](#); [\(2\) Backpack – Omni-directional Button](#)
- Transmit antenna gain: [\(1\) Vehicle – 2.1 dBi Max](#); [\(2\) Backpack – 3 dBi Max](#)
- Elevation above sea level of the antenna site: [1658 meters \(Littleton, CO\)](#)
- Height above ground of the focal point of the antenna: [Does not apply.](#)
- Antenna polarization: [\(1\) Vehicle – Vertical](#); [\(2\) Backpack – Vertical](#)
- The azimuth that the antenna is pointed or appropriate designator to indicate whether the antenna is rotating, non-directional, etc.: [Both applications are non-directional.](#)
- Pulse repetition rate (PRR) that the equipment is capable of operating on to include PRR stagger sequences if appropriate, whether the PRR is adjustable and what PRR's the equipment can accept, and any other information that would be helpful in understanding the pulse characteristics of the equipment: [Does not apply.](#)
- Pulse width: [Does not apply.](#)
- Equipment nomenclatures: [Wireless Ethernet/Serial/USB Gateway \(Microhard Systems IPn1320T\)](#)
- Whether the equipment is capable of blanking transmissions in certain azimuths and any limitations with respect to blanking: [Does not apply.](#)

- Radius of operations if appropriate:

MOBILE: Grand Prairie (DALLAS), TX, (Lockheed Martin Missiles and Fire Control), within 1 km, centered around NL 32-42-59; WL 97-02-02

MOBILE: Littleton (ARAPAHOE), CO, (LM Autonomous Systems Office), within 9 km, centered around NL 39-32-32; WL 105-02-17

- Detailed description of the proposed operation to include any technical parameters that will be altered during operations:

The wireless Ethernet/serial/USB gateway transceiver will provide a command and control link between the robotic vehicle and the operator. The antennas will be mounted on the vehicle and the operator at a height of less than 3 meters. The unit uses spread spectrum frequency hopping. The maximum data rate is 1.1Mbps.

The transceiver supports developmental testing of a robotic system using an existing All Terrain Vehicle to perform in the Air Assault Expeditionary Force role. The task is necessary to ensure the design will support actual demonstrations at US military test and training facilities.

24-Hour Facility Stop Buzzer

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