Applicar	nt/Grantee	Global Traffic	Technologie	es, LLC			
FCC ID: VJB-OPTICOMGPS6							
Section 15.212 Modular Transmitters							
Request	for Modular	Approval	Requ	est for Limited Modular Approval			
		Requirements		EUT Conditions	Comply (Y/N)		
				Approval Requirements	_		
1	The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.			The module has integral RF shielding to isolate it from surrounding equipment and the larger environment in general.	_		
2	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.			All inputs are buffered and processed as data by the on-board microcontroller. The outside user has no direct control of transmit modulation.	Y		
3		transmitter mus upply regulation		There is a 3.0V voltage regulator on board that powers the radio transceiver. The power amplifier supply is monitored by the microcontroller and transmission is disabled if the source voltage is greater than 5.25V.	Y		
4	with the ante system requi 15.204(b) an must either be employ a "un all connection the antenna, "professional Section 15.2 modules but	transmitter muse transmi and transmi rements of Section d 15.204(c). The permanently an ique" antenna consistence the resistence of the remaining the call installation" proposed in application of the call and application applies of the remaining the call installation.	ssion ons 15.203, e antenna ttached or oupler (at module and ble). The ovision of ble to ited	1) The antennas that are available for this device are:  a. Laird # MAF94192 b. HOW TSEN # S-001-1 c. Mobile Mark # DM2-2400/1575  d. Mobile Mark # LTMG511 This is in accordance with Part 15.203. The antenna connector is a standard connector and thus the device will be a limited modular approval.  GTT products are only sold through dealers or direct to Federal, State and Local Governments that are authorized to work on traffic control equipment. Some locations use their own installers, others hire licensed contractors to install and maintain traffic control equipment.  Global Traffic Technologies provides training for all installers on the installation and maintenance of this system.  Global Traffic Technologies controls access to the software needed to	Y		

		configure the Intersection and Vehicle equipment.  The Traffic Signal Preemption System is only available to "Authorized" agencies, any other use is considered a Federal crime.	
5	The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i> , the module must not be inside another device during testing for compliance with Part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see Section 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see Section 15.31(i)).	The module was tested in a standalone configuration and found to be compliant with Part 15 regulations.	Y
6	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.  (A) If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of	An FCC ID label is affixed to each unit at the time of manufacture. Information is also clearly presented in the user guide about labeling requirements for the final assembly.	Y

7	these instructions must be included in the application for equipment authorization.  (B) If the modular transmitter uses an electronic display of the FCC identification number, the information must be readily accessible and visible on the modular transmitter or on the device in which it is installed. If the module is installed inside another device, then the outside of the device into which the module is installed must display a label referring to the enclosed module. This exterior label can use wording such as the following:  "Contains FCC certified transmitter module(s)." Any similar wording that expresses the same meaning may be used. The user manual must include instructions on how to access the electronic display. A copy of these instructions must be included in the application for equipment authorization.  The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete	1) This unit is compliant with Part 15.247. Installation and other requirements are presented in the user guide to allow the unit to be correctly installed.	Y
	transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.		
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The unit is compliant with the RF exposure requirements of Parts 15.247 and 2.1091.	Y

A **limited modular approval** may be granted for single or split modular transmitters that do not comply with all of the above requirements, *e.g.*, shielding, minimum signaling amplitude, buffered modulation/data inputs, or power supply regulation, if the manufacturer can demonstrate by alternative means in the application for equipment authorization that the modular transmitter meets all the applicable Part 15 requirements under the operating conditions in which the transmitter will be used. Limited modular approval also may be granted in those instances where compliance with RF exposure rules is demonstrated only for particular product configurations. The applicant for certification must state how control of the end product into which the module will be installed will be maintained such that full compliance of the end product is always ensured.